

78655

Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Thomas G. Larson Examiner #: 777 Date: 10/24/02
Art Unit: 1 Phone Number 30 703-308-7309 Serial Number: 107135363
Mail Box and Bldg/Room Location: CM1 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Trans. Method
Inventors (please provide full names): Phillips et al

Earliest Priority Filing Date: 12/12/00

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search Seq ID Nos:
25, 45, 46, 9, 10, 8,
26, 41, 42, 43

[Aliases] no less than 10 NT's.
Please limit to 50 NT.

AGSS04
in process

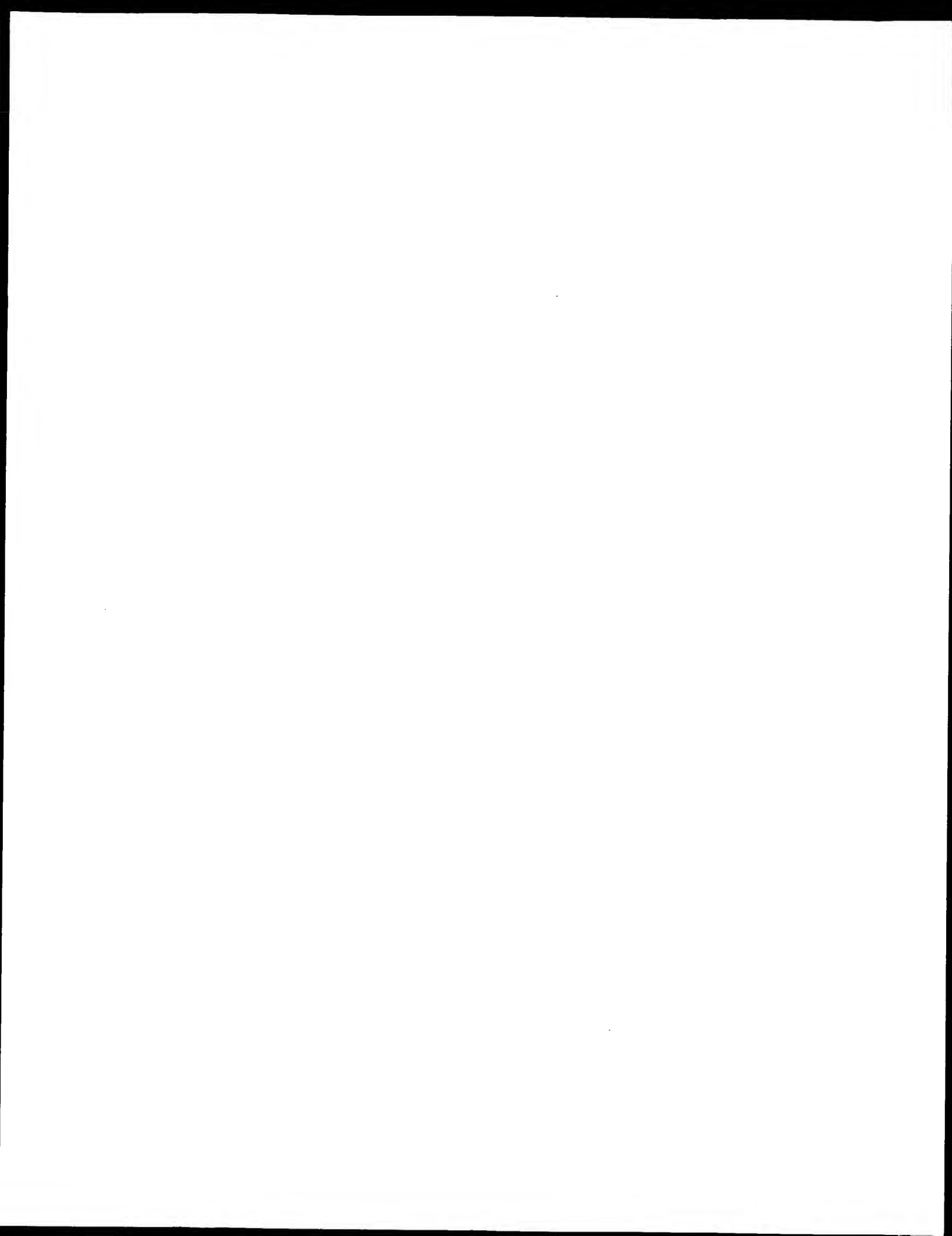
Point of Contact:
Thomas G. Larson, Ph.D.
703-308-7309
CM1, Rm. 6 B 01

703-308-7309
8-36
9-6
10-6
25-6
26-6

41-6
42-6
43-6
45-6
46-6

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher: <u>Point of Contact:</u>	NA Sequence (#) <u>10</u>	STN	
Searcher Phone #: <u>703-308-7309</u>	AA Sequence (#)	Dialog	
Searcher Location: <u>CM1, Rm. 6 B 01</u>	Structure (#)	Questel/Orbit	
Date Searcher Picked Up: <u>10/25</u>	Bibliographic	Dr.Link	
Date Completed: <u>10/30</u>	Litigation	Lexis/Nexis	
Searcher Prep & Review Time: <u>60</u>	Fulltext	Sequence Systems <u>60709</u>	
Clerical Prep Time:	Patent Family	WWW/Internet	
Online Time: <u>30</u>	Other	Other (specify)	

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OM nucleic - nucleic search, using sw model

Run on: October 30, 2002, 08:20:42 ; Search time 635.053 Seconds
(without alignments) 127.520 Million cell updates/sec

Title: US-09-735-363A-45

Perfect score: 6

Sequence: 1 ggggagg 6

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 13736207 seqs, 674847542 residues

Total number of hits satisfying chosen parameters: 89578

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

EST:*
1: em_estba:*
2: em_esthum:*
3: em_estin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hic:*
9: gp_est1:*
10: gp_est2:*
11: gp_hic:*
12: gp_gss:*
13: em_gss_hum:*
14: em_gss_inv:*
15: em_gss_pln:*
16: em_gss_vrt:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6	100.0	6	2	BG927410
2	6	100.0	10	6	AM672604
3	6	100.0	13	10	BM399550
4	6	100.0	16	9	AA968729
5	6	100.0	16	9	AI075064
6	6	100.0	16	9	AI094839
7	6	100.0	16	9	AI274782
8	6	100.0	16	9	AI560058
9	6	100.0	16	9	AI569544
10	6	100.0	18	9	AM250267
11	6	100.0	18	10	BG896958
12	6	100.0	18	10	BG925569
13	6	100.0	19	9	AA885444
14	6	100.0	19	9	AA918795
15	6	100.0	19	9	AA934650
16	6	100.0	19	9	AI251781
17	6	100.0	19	9	AI360784

18	6	100.0	19	9	AI648553
19	6	100.0	19	9	AI696833
20	6	100.0	19	9	AI758301
21	6	100.0	19	9	AI811474
22	6	100.0	19	12	A2307462
23	6	100.0	19	12	A2324165
24	6	100.0	19	12	A2345792
25	6	100.0	19	12	A2412553
26	6	100.0	19	12	A2418201
27	6	100.0	19	12	A2443948
28	6	100.0	19	12	A2445563
29	6	100.0	19	12	A2447248
30	6	100.0	19	12	A2447414
31	6	100.0	19	12	A2510143
32	6	100.0	19	12	A2512762
33	6	100.0	19	12	A2579189
34	6	100.0	19	12	A2595016
35	6	100.0	19	12	A2597219
36	6	100.0	19	12	A2654214
37	6	100.0	19	12	A2656937
38	6	100.0	19	12	A2759944
39	6	100.0	19	12	A2760597
40	6	100.0	19	12	A2762504
41	6	100.0	19	12	A2783420
42	6	100.0	19	12	A2786308
43	6	100.0	19	12	A2807034
44	6	100.0	19	12	A2835034
45	6	100.0	19	12	A2842379

ALIGNMENTS

RESULT 1

ID BG927410/c standard; RNA; EST; 6 BP.

AC BG927410;

SV BG927410.1

DT 09-JUN-2001 (Rel. 68, Created)

DT 14-NOV-2001 (Rel. 69, Last updated, Version 2)

DE HNC1-1-G7.R HNC (Human Normal Cartilage) Homo sapiens CDNA, mRNA sequence.

XX EST.

OS Homo sapiens (human)

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;

XX Eutheria; Primates; Catarrhini; Homiidae; Homo.

XX [1]

RA Kumar S., Connor J.R., Dodds R.A., Halsey W., Van Horn M., Mao J.,

RT Sathie G.M., Mui P., Agarwal P., Badger A.M., Lee J.C., Gowen M., Lark M.W.,

RT tags (ESTs) each from adult human normal and osteoarthritic cartilage CDNA

RL Osteoarthritic Cartilage 9(7):641-653(2001).

CC Contact: Sanjay Kumar

CC UW2109

CC GlaxoSmithKline

CC 709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406, USA

CC Tel: 610-270-7245

CC Fax: 610-270-5598

CC Email: sanjay_kumar.1@sk.com

CC Seq primer: 77.

XX Key

XX Location/Qualifiers

PH source 1. .6
 FT /db_xref="taxon:9606"
 FT /note="Vector: pSPORT I; Site_1: SalI; Site_2: NotI;
 FT Directional"
 FT /organism="Homo sapiens"
 FT /clone_lib="HNC (Human Normal Cartilage)"
 FT /tissue_type="cartilage"
 FT /lab_host="E.coli DH10 B"
 XX
 SQ Sequence 6 BP; 0 A; 5 C; 0 G; 1 T; 0 other;
 Query Match 100.0%; Score 6; DB 2; Length 6;
 Best Local Similarity 100.0%; Pred. No. 2.2e+09;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGGAGG 6
 Db 6 GGGAGG 1
 RESULT 2 10 bp mRNA linear EST 26-SEP-2001
 AM672604
 LOCUS
 DEFINITION 11P Explanted metanephric mesenchyme induced to differentiate into
 epithelial structures of the nephron ex vivo. Rattus norvegicus
 cDNA similar to: ref|NM_004844.1| Homo sapiens
 SH3-domain binding protein 5 (BTK-associated) (SH3BP5), mRNA, mRNA
 sequence.
 ACCESSION AM672604
 VERSION AM672604.1 GI:7541084
 KEYWORDS EST.
 SOURCE Norway rat.
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.
 1 (bases 1 to 10)
 Pilsav, S.Y., Ivanov, S.V., Yoshino, K., Dove, L.F., Pilsava, T.M.,
 Higdonblum, K.G., Karavanova, I., Lerman, M., and Perantoni, A.O.
 Mesenchymal-epithelial transition in the developing metanephric
 kidney: gene expression study by differential display
 Genesis 27 (1), 22-31 (2000)
 20321327
 CONTACT: Pilsav S.Y.
 Laboratory of Comparative Carcinogenesis
 National Cancer Institute
 FCRDC, Bldg. 538, Room 205, Frederick, MD 21702, USA
 Tel: 301 846 1242
 Fax: 301 846 4956
 Email: pilsav@mail.ncifcrf.gov
 PCR Primers
 FORWARD: ctgagatgacag
 BACKWARD: ttaagcttttttttc
 Insert Length: 460 Std Error: 0.00
 Seq primer: SP6
 High quality sequence stop: 268
 POLYA=yes
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 1. .10
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 /db_xref="taxon:10116"
 /clone_lib="Explanted metanephric mesenchyme induced to
 differentiate into epithelial structures of the nephron ex
 vivo."
 /tissue_type="Metanephric mesenchyme"
 /cell_type="Mesenchymal/Epithelial"
 /dev_stage="13 dpc-16dpc"
 /lab_host="JM109"
 /note="Organ: Kidney; Vector: pGEM-Teasy (Promega).;
 Restriction Enzymes 1; ApaI, AatII, SphI, NcoI, BstXI,
 NotI, SacI, and EcoRI SpeI, EcoRI, NotI, BstXI, PstI,
 SalI, NdeI, SacI, BstXI, and NsiI cDNA fragment

PCR-amplified in mRNA differential display analysis;
 cloned in pGEM-Teasy (Promega); its expression is
 developmentally regulated during mesenchymal-epithelial
 conversion in the metanephric kidney."
 BASE COUNT 1 a 0 c 9 g 0 t
 ORIGIN
 Query Match 100.0%; Score 6; DB 9; Length 10;
 Best Local Similarity 100.0%; Pred. No. 2.2e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGGAGG 6
 Db 6 GGGAGG 6
 RESULT 3 13 bp mRNA linear EST 17-JUN-2002
 BM399550/c
 LOCUS
 DEFINITION Tetrahymena thermophila cDNA (large fraction)
 5009-0-59-C05.t.1 Chilcoat/Turkewitz cDNA (large fraction)
 ACCESSION BM399550
 VERSION BM399550.1 GI:18199603
 KEYWORDS EST.
 SOURCE Tetrahymena thermophila.
 ORGANISM Tetrahymena thermophila.
 Eukaryota; Alveolata; Ciliophora; Oligohymenophorea;
 Hymenostomalia; Tetrahymena; Tetrahymena.
 1 (bases 1 to 13)
 Turkewitz, A.P., Karer, K.M., Jahn, C., Orlas, E., Kirk, K.E., Frankel
 J., and Klobutcher, L.
 EST from Tetrahymena thermophila, strain CVA28.1, growing cells
 Unpublished (2002)
 CONTACT: Turkewitz AP
 Molecular Genetics and Cell Biology
 University of Chicago
 920 E. 58th street, Chicago, IL 60637, USA
 Tel: 773 702 4374
 Fax: 773 702 3172
 Email: apturkew@midway.uchicago.edu
 Seq primer: T3.
 FEATURES
 source
 1. .13
 Location/Qualifiers
 /organism="Tetrahymena thermophila"
 /strain="CVA28.1"
 /db_xref="taxon:5911"
 /clone_lib="Chilcoat/Turkewitz cDNA (large fraction)"
 /note="Vector: Bluescript2 SK+; Details on library
 preparation can be found in Chilcoat and Turkewitz (2001)
 Proc. Natl. Acad. Sci USA, 98: 8709-8713."
 BASE COUNT 0 a 6 c 5 g 2 t
 ORIGIN
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 Best Local Similarity 100.0%; Pred. No. 2.2e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGGAGG 6
 Db 6 GGGAGG 1
 RESULT 4 16 bp mRNA linear EST 27-AUG-1998
 AA968729
 LOCUS
 DEFINITION or6h11.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1601157 3'
 similar to SW:PRE_HUMAN P02811 BASIC PROLINE-RICH PEPTIDE P-E
 ; contains element MSRI repetitive element ;, mRNA sequence.
 ACCESSION AA968729
 VERSION AA968729.1 GI:3143909
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens

REFERENCE
AUTHORS
TITLE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 16)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)

JOURNAL
COMMENT

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/bbrp/image/image.html

FEATURES

source

Trace considered overall poor quality
Insert Length: 514 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers

1..16
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1601157"
/clone_1lb="NCI-CGAP_GC3"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/note="Vector: pT73D-Pac (Pharmacia) with a modified polylinker: 1st strand cDNA was prepared from 3 pooled germ cell tumors, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library is not normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT
ORIGIN

2 a 1 c 13 g 0 t

Query Match 100.0%; Score 6; DB 9; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.2e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
Db 5 GGGAGG 10

RESULT 5
AI075064/c 16 bp mRNA linear EST 27-AUG-1998
LOCUS 0u61g11.x1 NCI-CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632356 3'
DEFINITION similar to TR:Q24348 Q24348 FIBRILLARIN ; mRNA sequence.
ACCESSION AI075064
VERSION AI075064.1 GI:3399844
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 16)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.

JOURNAL
COMMENT

Trace considered overall poor quality
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers

FEATURES

source

DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/bbrp/image/image.html
Insert Length: 712 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers

BASE COUNT
ORIGIN

0 a 12 c 0 g 4 t

Query Match 100.0%; Score 6; DB 9; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.2e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
Db 8 GGGAGG 3

RESULT 6
AI094839/c 16 bp mRNA linear EST 18-AUG-1998
LOCUS q22c08.x1 NCI-CGAP_Br23 Homo sapiens cDNA clone IMAGE:167502 3'
DEFINITION similar to TR:000599 000599 CONN.; contains element MSRI repetitive element ; mRNA sequence.
ACCESSION AI094839
VERSION AI094839.1 GI:3433815
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 16)
NCI/NINDS-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute / National Institute of Neurological Disorders and Stroke, Brain Tumor Genome Anatomy Project (CGAP/BRGAP), Tumor Gene Index
Unpublished (1998)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: David N. Louis, M.D., Myrna R. Rosenfeld M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/bbrp/image/image.html

JOURNAL
COMMENT

Trace considered overall poor quality
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers

FEATURES

source

1..16

BASE COUNT	0 a	13 c	2 g	1 t		
ORIGIN						
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Best Local Similarity	100.0%;	Pred. No. 2.2e+06;				
Matches	6;	Conservative	0;	Mismatches 0;		
Indels	0;	Gaps	0;			
QY	1 GGGAGG 6					
Db	10 GGGAGG 5					
RESULT 8						
LOCUS	A1560058	16 bp	mRNA	linear		
DEFINITION	tq38h11.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2211141 3'					
ACCESSION	similar to TR:Q04154 Q04154 SALIVARY PROLINE-RICH PROTEIN RP15					
VERSION	PRECURSOR. ; contains MSRL.t2 MSRL repetitive element ; , mRNA					
KEYWORDS	sequence.					
SOURCE	A1560058.1	GI:4510263				
ORGANISM	EST.					
REFERENCE	human.					
AUTHORS	Homo sapiens					
TITLE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
JOURNAL	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.					
COMMENT	1 (bases 1 to 16)					
	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap .					
	National Cancer Institute, Cancer Genome Anatomy Project (CGAP),					
	Tumor Gene Index					
	Unpublished (1997)					
	Contact: Robert Strausberg, Ph.D.					
	Email: cgapbs-ri@mail.nih.gov					
	Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.					
	Emmert-Buck, M.D., Ph.D.					
	cDNA Library Preparation: Life Technologies, Inc.					
	cDNA Library Arrayed by: Greg Lennon, Ph.D.					
	DNA Sequencing by: Washington University Genome Sequencing Center					
	Clone distribution: NCI-CGAP clone distribution information can be					
	found through the I.M.A.G.E. Consortium/TLNL at:					
	www.bio.lnl.gov/bbrp/image/image.html					
FEATURES	Trace considered overall poor quality					
source	Insert Length: 2104 Std Error: 0.00					
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	High quality sequence stop: 1					
	POLYA-No.					
	Location/Qualifiers					
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	/clone_id="NCI_CGAP_Ut1"					
	/tissue_type="well-differentiated endometrial					
	adenocarcinoma, 7 pooled tumors"					
	/lab_host="DH108"					
	/note="Organ: uterus; Vector: pCMV-SPORT6; Site_1: SalI;					
	Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT.					
	Average insert size 1.75 kb. Life Technologies catalog #:					
	11538-014"					
BASE COUNT	1 a	4 c	11 g	0 t		
ORIGIN						
Query Match	100.0%;	Score 6;	DB 9;	Length 16;		
Best Local Similarity	100.0%;	Pred. No. 2.2e+06;				
Matches	6;	Conservative	0;	Mismatches 0;		
Indels	0;	Gaps	0;			
QY	1 GGGAGG 6					
Db	8 GGGAGG 13					

A1569544/c
 LOCUS A1569544 16 bp mRNA linear EST 12-MAY-1999
 DEFINITION to28d10.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2180371 3' similar to FR:Q18444 Q18444 COSMID C34D4. ;contains MSRL.b2 MSRL repetitive element ;, mRNA sequence.
 A1569544
 ACCESSION A1569544.1 GI:4532918
 VERSION EST.
 KEYWORDS
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 REFERENCE 1 (bases 1 to 16)
 AUTHORS NCI_CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: Greg Lennon, Ph.D.
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www.bio.llnl.gov/dbrip/image/image.html
 www.bio.llnl.gov/dbrip/image/image.html
 FEATURES
 source
 1.16
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:2180371"
 /clone_lib="NCI_CGAP_Ut4"
 /tissue_type="serous papillary carcinoma, high grade, 2 pooled tumors"
 /lab_host="DH10B"
 /note="Organ: uterus; Vector: pCMV-SPORT6; Site: 1; Salt; Site: 2; NotI: Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.48 kb. Life Technologies catalog #: 11542-016"
 BASE COUNT 1 a 14 c 0 g 1 t
 ORIGIN
 Query Match 100.0%; Score 6; DB 9; Length 16;
 Best Local Similarity 100.0%; Pred. No. 2.2e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GGCAGC 6
 |||||
 Db 8 GGCAGC 3
 RESULT 10
 AM250267 18 bp mRNA linear EST 07-JAN-2000
 LOCUS AM250267
 DEFINITION 2821151.5prtime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2821151 5', mRNA sequence.
 ACCESSION AM250267
 VERSION AM250267.1 GI:6593260
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 REFERENCE 1 (bases 1 to 18)
 AUTHORS NIH-MGC http://mgc.nci.nih.gov/
 COMMENT National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)
 COMMENT Other ESTs: 2821151.3prtime
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: DCTD/DP cDNA Library Preparation: Ling Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Berkeley MGC sequencing project
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www.bio.llnl.gov/dbrip/image/image.html Base Calling / Quality Scores: PHRED from University of Washington Genome Center. Vector Trimming: cross-match from University of Washington Genome Center PHRAP suite. Poly-T identification: patmatch.pl from Berkeley
 Drosophila genome project. University of Washington Genome Center: http://www.genome.washington.edu low Quality Sequence: 16 contiguous PHRED high quality bases following vector sequence. Very low Quality Sequence: trace file contained 18 contiguous distinct peaks following vector sequence.
 Plate: L1CM6 row: A column: 24
 High quality sequence stop: 16.
 Location/Qualifiers
 1.18
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:2821151"
 /clone_lib="NIH_MGC-7"
 /tissue_type="small cell carcinoma"
 /cell_line="MGC3"
 /lab_host="DH10B (phage-resistant)"
 /note="Organ: lung; Vector: pOTB7; Site: 1; XhoI; Site: 2; EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAGCAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."
 BASE COUNT 3 a 3 c 12 g 0 t
 ORIGIN
 Query Match 100.0%; Score 6; DB 9; Length 18;
 Best Local Similarity 100.0%; Pred. No. 2.2e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GGCAGC 6
 |||||
 Db 9 GGCAGC 14
 RESULT 11
 BG896958 18 bp mRNA linear EST 06-NOV-2001
 LOCUS BG896958/c
 DEFINITION H0A59-1-P4.R HOA (Human Osteoarthritic Cartilage) Homo sapiens cDNA, mRNA sequence.
 ACCESSION BG896958
 VERSION BG896958.1 GI:14307199
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 REFERENCE 1 (bases 1 to 18)
 AUTHORS Kumar, S., Connor, J.R., Dodds, R.A., Halsey, W., Van Horn, M., Mao, J., Sathe, G., Mul, P., Agarwal, P., Badger, A.M., Lee, J.C., Gowen, M. and Lark, M.W.
 TITLE Identification and initial characterization of 5000 expressed sequenced tags (ESTs) each from adult human normal and osteoarthritic cartilage cDNA libraries
 JOURNAL Osteoarthritis Cartilage 9 (7), 641-653 (2001)
 MEDLINE 21482651
 COMMENT Contact: Sanjay Kumar
 UW2109
 GlaxoSmithKline

709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406, USA
Tel: 610-270-7245
Fax: 610-270-5598
Email: sanjay.kumar-1@gs.com

Seq primer: T7.

FEATURES

Source

Location/Qualifiers
1..18
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="HOA (Human Osteoarthritic Cartilage)"
/tissue_type="cartilage"
/lab_host="E.coli DH10 B"
/note="Vector: pSPORT 1; Site_1: SalI; Site_2: NotI;
Directional"

BASE COUNT 1 a 11 c 0 g 6 t

ORIGIN

Query Match 100.0%; Score 6; DB 10; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.2e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
DB 11 GGGAGG 6

RESULT 12

BS925569 18 bp mRNA linear EST 06-NOV-2001

LOCUS HNC5-1-E2.R HNC (Human Normal Cartilage) Homo sapiens cDNA, mRNA

DEFINITION sequence.

ACCESSION BS925569.1 GI:14320092

VERSION BS925569.1

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

1 (bases 1 to 18)

Kumar, S., Connor, J.R., Dodds, R.A., Halsey, W., Van Horn, M., Mao, J.,

Sathe, G., Mul, P., Agarwal, P., Badger, A.M., Lee, J.C., Gowen, M. and

Lark, M.W.

Identification and initial characterization of 5000 expressed

sequenced tags (ESTs) each from adult human normal and

osteoarthritic cartilage cDNA libraries

Osteoarthritic Cartilage 9 (7), 641-653 (2001)

21482651

Contact: Sanjay Kumar

UM2109

GlaxoSmithKline

709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406, USA

Tel: 610-270-7245

Fax: 610-270-5598

Email: sanjay.kumar-1@gs.com

Seq primer: T7.

Location/Qualifiers

DB 8 GGGAGG 3

RESULT 13

AA885444/c

LOCUS

DEFINITION

AA885444

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

Source

Location/Qualifiers
1..19
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="IMAGE:1466845"
/clone_lib="Soares-NFL-T-GBC-S1"
/lab_host="DH10B"
/note="Organ: pooled; Vector: pT73D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI;
Equal amounts of plasmid DNA from three normalized
libraries (fetal lung Nhlh19w, testis NHT, and B-cell
NCT-CGAP CGA1) were mixed and ss circles were made in
vitro. Following HAP purification, this DNA was used as
tracer in a subtractive hybridization reaction. The driver
was PCR-amplified cDNAs from pools of 5,000 clones made
from the same 3 libraries. The pools consisted of
I.M.A.G.E. clones 297480-302087, 682632-687239,
726408-728711, and 729096-731339. Subtraction by Bento
Soares and M. Fatima Bonaldi.

BASE COUNT 2 a 8 c 5 g 4 t

ORIGIN

Query Match 100.0%; Score 6; DB 9; Length 19;

Best Local Similarity 100.0%; Pred. No. 2.2e+06;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6

|||||

DB 19 GGGAGG 14

RESULT 14

AA918795

LOCUS

DEFINITION

AA918795

VERSION

KEYWORDS

SOURCE

AA885444 19 bp mRNA linear EST 04-JAN-1999

AA918795 19 bp mRNA linear EST 10-JUN-1998

AA918795 19 bp mRNA linear EST 10-JUN-1998

AA918795 19 bp mRNA linear EST 10-JUN-1998

AA918795 19 bp mRNA linear EST 10-JUN-1998

AA918795 19 bp mRNA linear EST 10-JUN-1998

AA918795 19 bp mRNA linear EST 10-JUN-1998

AA918795 19 bp mRNA linear EST 10-JUN-1998

AA918795 19 bp mRNA linear EST 10-JUN-1998

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AA918795 19 bp mRNA linear EST 10-JUN-1998

AA918795 19 bp mRNA linear EST 10-JUN-1998

AA918795 19 bp mRNA linear EST 10-JUN-1998

REFERENCE 1 (bases 1 to 19)
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index

JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
 Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/dbtrp/image/image.html

FEATURES
 source 1..19
 Trace considered overall poor quality
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 Seq primer: -40m13 fwd. ET from Amersham
 High quality sequence stop: 1.
 Location/Qualifiers

1..19
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone_image="1534856"
 /clone_lib="NCI-CGAP_K1d3"
 /lab_host="DH10B"
 /note="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with
 a modified polylinker; Site.1: Not I; Site.2: Eco RI; 1st
 strand cDNA was primed with a Not I - oligo(dT) primer,
 double-stranded cDNA was ligated to Eco RI adaptors
 (Pharmacia), digested with Not I and Eco RI into the Not
 I and Eco RI sites of the modified pT73 vector. mRNA
 source: 2 pooled kidneys. Library went through one round
 of normalization. Library constructed by Bento Soares and
 M. Fatima Bonaldo." 0 t
 BASE COUNT 3 a 0 c 16 g 0 t
 ORIGIN

Query Match 100.0%; Score 6; DB 9; Length 19;
 Best Local Similarity 100.0%; Pred. No. 2.2e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGAGG 6
 |||||
 Db 11 GGGAGG 16

RESULT 15
 AA934650 19 bp mRNA linear EST 28-APR-1998
 LOCUS oo71d10.s1 NCI-CGAP.GC4 Homo sapiens cDNA clone IMAGE:1571635 3'
 DEFINITION similar to TR:015047 015047 KIA00339.; mRNA sequence.
 ACCESSION AA934650
 VERSION AA934650.1 GI:3091862
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 19)
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
 Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 DNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/dbtrp/image/image.html

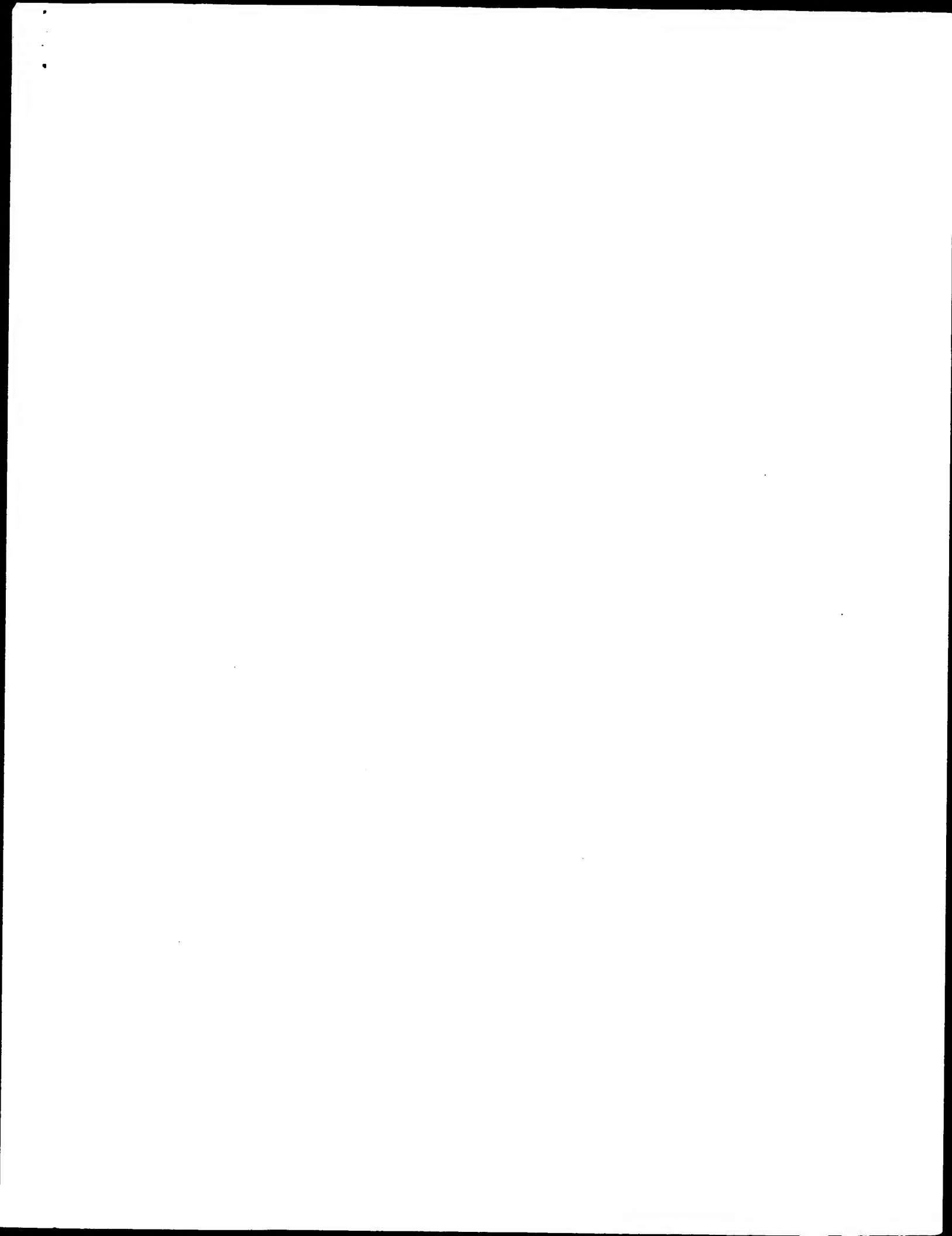
Trace considered overall poor quality
 Seq primer: -40m13 fwd. ET from Amersham
 High quality sequence stop: 1.
 Location/Qualifiers

1..19
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone_image="1571635"
 /clone_lib="NCI-CGAP.GC4"
 /tissue_type="pooled germ cell tumors"
 /lab_host="DH10B"
 /note="Vector: pT73D-Pac (Pharmacia) with a modified
 polylinker; 1st strand cDNA was prepared from 3 pooled
 germ cell tumors, and was then primed with a Not I -
 oligo(dT) primer. Double-stranded cDNA was ligated to Eco
 RI adaptors (Pharmacia), digested with Not I and Eco RI
 into the Not I and Eco RI sites of the modified pT73
 vector. Library is normalized. Library was constructed by
 Bento Soares and M. Fatima Bonaldo." 3 t
 BASE COUNT 1 a 4 c 11 g 3 t
 ORIGIN

Query Match 100.0%; Score 6; DB 9; Length 19;
 Best Local Similarity 100.0%; Pred. No. 2.2e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGAGG 6
 |||||
 Db 2 GGGAGG 7

Search completed: October 30, 2002, 10:42:09
 Job time : 637.053 secs



GenCore version 5.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 29, 2002, 17:58:36 ; Search time 335.474 Seconds
(without alignments)
374.274 Million cell updates/sec

Title: US-09-735-363A-45

Perfect score: 6

Sequence: 1 gggagag 6

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 708260

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl:*
1: gb_ba:*
2: gb_hlg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*
15: gb_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*
28: em_un:*
29: em_vl:*
30: em_hlg_hum:*
31: em_hlg_inv:*
32: em_hlg_other:*
33: em_hlgo_inv:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Score	Match Length	ID	Description

1	C	6	100.0	6	AX175281	AX175281 Sequence
2	C	6	100.0	8	AX286327	AX286327 Sequence
3	C	6	100.0	9	A70954	A70954 Sequence 8
4	5	6	100.0	9	AX103813	AX103813 Sequence
5	6	6	100.0	9	AX103814	AX103814 Sequence
6	6	6	100.0	9	AX214433	AX214433 Sequence
7	7	6	100.0	9	AX119721	AX119721 Sequence
8	C	6	100.0	9	AX119722	AX119722 Sequence
9	9	6	100.0	9	AX320671	AX320671 Sequence
10	10	6	100.0	9	AX355391	AX355391 Sequence
11	11	6	100.0	9	AX355392	AX355392 Sequence
12	12	6	100.0	10	AR030218	AR030218 Sequence
13	13	6	100.0	10	AR058519	AR058519 Sequence
14	C	6	100.0	10	AR058771	AR058771 Sequence
15	C	6	100.0	10	AR058772	AR058772 Sequence
16	C	6	100.0	10	AR058773	AR058773 Sequence
17	C	6	100.0	10	AR058774	AR058774 Sequence
18	C	6	100.0	10	AX152136	AX152136 Sequence
19	C	6	100.0	10	AX152183	AX152183 Sequence
20	C	6	100.0	10	AX152246	AX152246 Sequence
21	C	6	100.0	10	AX152360	AX152360 Sequence
22	22	6	100.0	10	AX152391	AX152391 Sequence
23	23	6	100.0	10	AX152421	AX152421 Sequence
24	C	6	100.0	10	AX152726	AX152726 Sequence
25	C	6	100.0	10	AX152747	AX152747 Sequence
26	C	6	100.0	10	AX152940	AX152940 Sequence
27	C	6	100.0	10	AX152946	AX152946 Sequence
28	C	6	100.0	10	AX153046	AX153046 Sequence
29	C	6	100.0	10	AX153160	AX153160 Sequence
30	C	6	100.0	10	AX153189	AX153189 Sequence
31	C	6	100.0	10	AX301481	AX301481 Sequence
32	C	6	100.0	10	AX301502	AX301502 Sequence
33	C	6	100.0	10	AX301503	AX301503 Sequence
34	C	6	100.0	10	AX301724	AX301724 Sequence
35	35	6	100.0	10	AX302573	AX302573 Sequence
36	36	6	100.0	10	AX302593	AX302593 Sequence
37	37	6	100.0	10	AX319696	AX319696 Sequence
38	38	6	100.0	10	E05324	E05324 Ant1-sense
39	C	6	100.0	10	I17723	I17723 Sequence 3
40	C	6	100.0	11	A70952	A70952 Sequence 6
41	C	6	100.0	11	AR029861	AR029861 Sequence
42	C	6	100.0	11	AR029864	AR029864 Sequence
43	C	6	100.0	11	AR029865	AR029865 Sequence
44	C	6	100.0	11	AR029932	AR029932 Sequence
45	C	6	100.0	11	AR029933	AR029933 Sequence

ALIGNMENTS

RESULT 1
AX175281
LOCUS AX175281
DEFINITION Sequence 45 from Patent WO0144465.
ACCESSION AX175281
VERSION AX175281.1 GI:14598649
KEYWORDS
SOURCE
ORGANISM
synthetic construct.
artificial sequence.
REFERENCE
1 (bases 1 to 6)
Phillips,N.C. and Fillion,M.C.
Therapeutically useful synthetic oligonucleotides
Patent: WO 0144465-A 45 21-JUN-2001;
JOURNAL Bioniche Life Sciences Inc. (CA)
Location/Qualifiers

FEATURES
source
1..6
/organism="synthetic construct"
/db_xref="taxon:32630"

BASE COUNT	ORIGIN	Query Match	Score	DB	Length
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Best Local Similarity 100.0%; Pred. No. 3.5e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
Db 1 GGGAGG 6

RESULT 2

AX286327/c

LOCUS AX286327 8 bp DNA linear PAT 21-NOV-2001
DEFINITION Sequence 6 from Patent WO0181591.
ACCESSION AX286327
VERSION AX286327.1 GI:17048574

KEYWORDS

SOURCE thale cress.
ORGANISM Arabidopsis thaliana

REFERENCE Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
1 (sites)
AUTHORS Bolsson,M., Gomord,V., Lerouge,P., Faye,L., Caboche,M. and
Lepointec,L.

TITLE Novel plant glucosylase 1 and use thereof for producing recombinant
proteins with modified glycosylation

JOURNAL Patent: WO 0181591-A 6 01-NOV-2001;
INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (INRA) (FR) ; CENTRE
NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS) (FR)

FEATURES

source

1..8
/organism="Arabidopsis thaliana"
/db_xref="taxon:3702"

misc-feature
1
/note="Groupe phosphorique (P04) li en position 5' du
sucr"

misc-feature

8
/note="Groupe amino en position 3' du sucr"

BASE COUNT 1 a 6 c 0 g 1 t
ORIGIN
Query Match 100.0%; Score 6; DB 6; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.6e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
Db 7 GGGAGG 2

RESULT 3
LOCUS A70954/c
DEFINITION Sequence 8 from Patent WO9813522.
ACCESSION A70954
VERSION A70954.1 GI:4774939

KEYWORDS

SOURCE unidentified.
ORGANISM unidentified.

REFERENCE 1 (bases 1 to 9)
AUTHORS Uhlen,M. and Lundberg,J.
TITLE THE USE OF MODULAR OLIGONUCLEOTIDES AS PROBES OR PRIMERS IN NUCLEIC
ACID BASED ASSAY

JOURNAL Patent: WO 9813522-A 8 02-APR-1998;
DZIELEWSKA HANNA EVA (GB)

FEATURES

1..9
Location/Qualifiers

source /organism="unidentified"
/db_xref="taxon:32644"

BASE COUNT 0 a 5 c 3 g 1 t
ORIGIN

Query Match 100.0%; Score 6; DB 6; Length 9;

Best Local Similarity 100.0%; Pred. No. 2.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
Db 6 GGGAGG 1

RESULT 4

AX103813

LOCUS AX103813 9 bp DNA linear PAT 30-APR-2001
DEFINITION Sequence 5 from Patent WO0122972.
ACCESSION AX103813
VERSION AX103813.1 GI:13920010

KEYWORDS

SOURCE synthetic construct.
ORGANISM synthetic construct.

REFERENCE 1 (bases 1 to 9)
AUTHORS Krieg,A.M., Schetter,C. and Vollmer,J.C.
TITLE Immunostimulatory nucleic acids
JOURNAL Patent: WO 0122972-A 5 05-APR-2001;
UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical
GmbH (DE)

FEATURES

1..9
Location/Qualifiers

source /organism="synthetic construct"
/db_xref="taxon:32630"

BASE COUNT 1 a 0 c 7 g 1 t
ORIGIN

Query Match 100.0%; Score 6; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 2.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
Db 2 GGGAGG 7

RESULT 5
LOCUS AX103814 9 bp DNA linear PAT 30-APR-2001
DEFINITION Sequence 6 from Patent WO0122972.
ACCESSION AX103814
VERSION AX103814.1 GI:13920011

KEYWORDS

SOURCE synthetic construct.
ORGANISM synthetic construct.

REFERENCE 1 (bases 1 to 9)
AUTHORS Krieg,A.M., Schetter,C. and Vollmer,J.C.
TITLE Immunostimulatory nucleic acids
JOURNAL Patent: WO 0122972-A 6 05-APR-2001;
UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical
GmbH (DE)

FEATURES

1..9
Location/Qualifiers

source /organism="synthetic construct"
/db_xref="taxon:32630"

BASE COUNT 1 a 0 c 8 g 0 t
ORIGIN

Query Match 100.0%; Score 6; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 2.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
Db 2 GGGAGG 7

RESULT 6

AX214433 AX214433 9 bp DNA linear PAT 06-SEP-2001
LOCUS Sequence 41 from Patent WO0159450.
DEFINITION AX214433
ACCESSION AX214433
VERSION AX214433.1 GI:15524493
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE
AUTHORS Case, C.
TITLE 1 (bases 1 to 9)
JOURNAL
FEATURES
source
1. .9
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="target sequence 3"
BASE COUNT 1 a 1 c 7 g 0 t
ORIGIN
Query Match 100.0%; Score 6; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 2.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GGGAGG 6
|||||
DB 2 GGGAGG 7

RESULT 7
AX319721 9 bp DNA linear PAT 14-DEC-2001
LOCUS Sequence 27 from Patent WO0183751.
DEFINITION AX319721
ACCESSION AX319721
VERSION AX319721.1 GI:17901362
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE
AUTHORS Raschke, E., Wolffe, A.P. and Case, C.C.
TITLE 1 (sites)
JOURNAL Methods for binding an exogenous molecule to cellular chromatin
Patent: WO 0183751-A 27 08-NOV-2001;
Sangamo Biosciences Inc. (US)
FEATURES
source
1. .9
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="target sequence 3"
BASE COUNT 2 a 0 c 7 g 0 t
ORIGIN
Query Match 100.0%; Score 6; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 2.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GGGAGG 6
|||||
DB 2 GGGAGG 7

RESULT 8
AX319722/c 9 bp DNA linear PAT 14-DEC-2001
LOCUS Sequence 28 from Patent WO0183751.
DEFINITION AX319722
ACCESSION AX319722
VERSION AX319722.1 GI:17901363
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE
AUTHORS
TITLE
JOURNAL
FEATURES
source
1. .9
/organism="synthetic construct"

REFERENCE 1 (sites)
AUTHORS Raschke, E., Wolffe, A.P. and Case, C.C.
TITLE Methods for binding an exogenous molecule to cellular chromatin
JOURNAL Patent: WO 0183751-A 28 08-NOV-2001;
Sangamo Biosciences Inc. (US)
FEATURES
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/organism="synthetic construct"
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Best Local Similarity 100.0%; Pred. No. 2.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GGGAGG 6
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DB 8 GGGAGG 3

RESULT 9
AX320671 9 bp DNA linear PAT 14-DEC-2001
LOCUS Sequence 2 from Patent WO0183793.
DEFINITION AX320671
ACCESSION AX320671
VERSION AX320671.1 GI:17902330
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE
AUTHORS Wolffe, A.P. and Collingwood, T.
TITLE Targeted modification of chromatin structure
JOURNAL Patent: WO 0183793-A 2 08-NOV-2001;
Sangamo Biosciences Inc. (US)
FEATURES
source
1. .9
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/db_xref="taxon:32630"
/note="Veg 1 target site 5' to 3'"
BASE COUNT 2 a 0 c 6 g 1 t
ORIGIN
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Best Local Similarity 100.0%; Pred. No. 2.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GGGAGG 6
|||||
DB 2 GGGAGG 7

RESULT 10
AX355391 9 bp DNA linear PAT 06-FEB-2002
LOCUS Sequence 419 from Patent WO0197843.
DEFINITION AX355391
ACCESSION AX355391
VERSION AX355391.1 GI:18620059
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE
AUTHORS Weiner, G. and Hartmann, G.
TITLE Methods for enhancing antibody-induced cell lysis and treating
cancer
JOURNAL Patent: WO 0197843-A 419 27-DEC-2001;
UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES
source
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/db_xref="taxon:32630"
/Note="Synthetic oligonucleotide-phosphorothioate backbone"
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Query Match
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Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGGAGG 6
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Db       2 GGGAGG 7

RESULT 11
AX355392
LOCUS      AX355392      9 bp      DNA      linear      PAT 06-FEB-2002
DEFINITION Sequence 420 from Patent WO0197843.
ACCESSION  AX355392
VERSION     AX355392.1 GI:18620060
KEYWORDS
SOURCE      synthetic construct.
ORGANISM    synthetic construct
REFERENCE   1 (sites)
AUTHORS     Weiner,G. and Hartmann,G.
TITLE       Methods for enhancing antibody-induced cell lysis and treating
            Cancer
            Patent: WO 0197843-A 420 27-DEC-2001;
            UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES
source      /organism="synthetic construct"
            /db_xref="taxon:32630"
            /note="Synthetic oligonucleotide-phosphorothioate backbone"

BASE COUNT      1 a      0 c      7 g      1 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 6; DB 6; Length 9;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGGAGG 6
        |||||
Db       2 GGGAGG 7

RESULT 12
AR030218
LOCUS      AR030218      10 bp      DNA      linear      PAT 29-SEP-1999
DEFINITION Sequence 29 from patent US 5861246.
ACCESSION  AR030218
VERSION     AR030218.1 GI:5943432
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 10)
AUTHORS     Weissman,S.M., Nallur,G.N. and Kulkarni,P.
TITLE       Multiple selection process for binding sites of DNA-binding
            proteins
            Patent: US 5861246-A 29 19-JAN-1999;
            Location/Qualifiers
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            /organism="unknown"

BASE COUNT      1 a      0 c      7 g      2 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 6; DB 6; Length 10;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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        |||||
Db       2 GGGAGG 7

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QY      1 GGGAGG 6
        |||||
Db       3 GGGAGG 8

RESULT 13
AR058519
LOCUS      AR058519      10 bp      DNA      linear      PAT 29-SEP-1999
DEFINITION Sequence 96 from patent US 5837832.
ACCESSION  AR058519
VERSION     AR058519.1 GI:5984096
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 10)
AUTHORS     Chee,M., Cronin,M.T., Fodor,S.P.A., Huang,X.X., Hubbell,E.A.,
            Lipshutz,R.J., Lobban,P.E., Morris,M.S. and Sheldon,E.L.
TITLE       Arrays of nucleic acid probes on biological chips
            Patent: US 5837832-A 96 17-NOV-1998;
            Location/Qualifiers
            1..10
            /organism="unknown"

BASE COUNT      1 a      1 c      8 g      0 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 6; DB 6; Length 10;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGGAGG 6
        |||||
Db       5 GGGAGG 10

RESULT 14
AR058771
LOCUS      AR058771      10 bp      DNA      linear      PAT 29-SEP-1999
DEFINITION Sequence 348 from patent US 5837832.
ACCESSION  AR058771
VERSION     AR058771.1 GI:5984348
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 10)
AUTHORS     Chee,M., Cronin,M.T., Fodor,S.P.A., Huang,X.X., Hubbell,E.A.,
            Lipshutz,R.J., Lobban,P.E., Morris,M.S. and Sheldon,E.L.
TITLE       Arrays of nucleic acid probes on biological chips
            Patent: US 5837832-A 348 17-NOV-1998;
            Location/Qualifiers
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BASE COUNT      0 a      6 c      2 g      2 t
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Query Match
Best Local Similarity 100.0%; Score 6; DB 6; Length 10;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

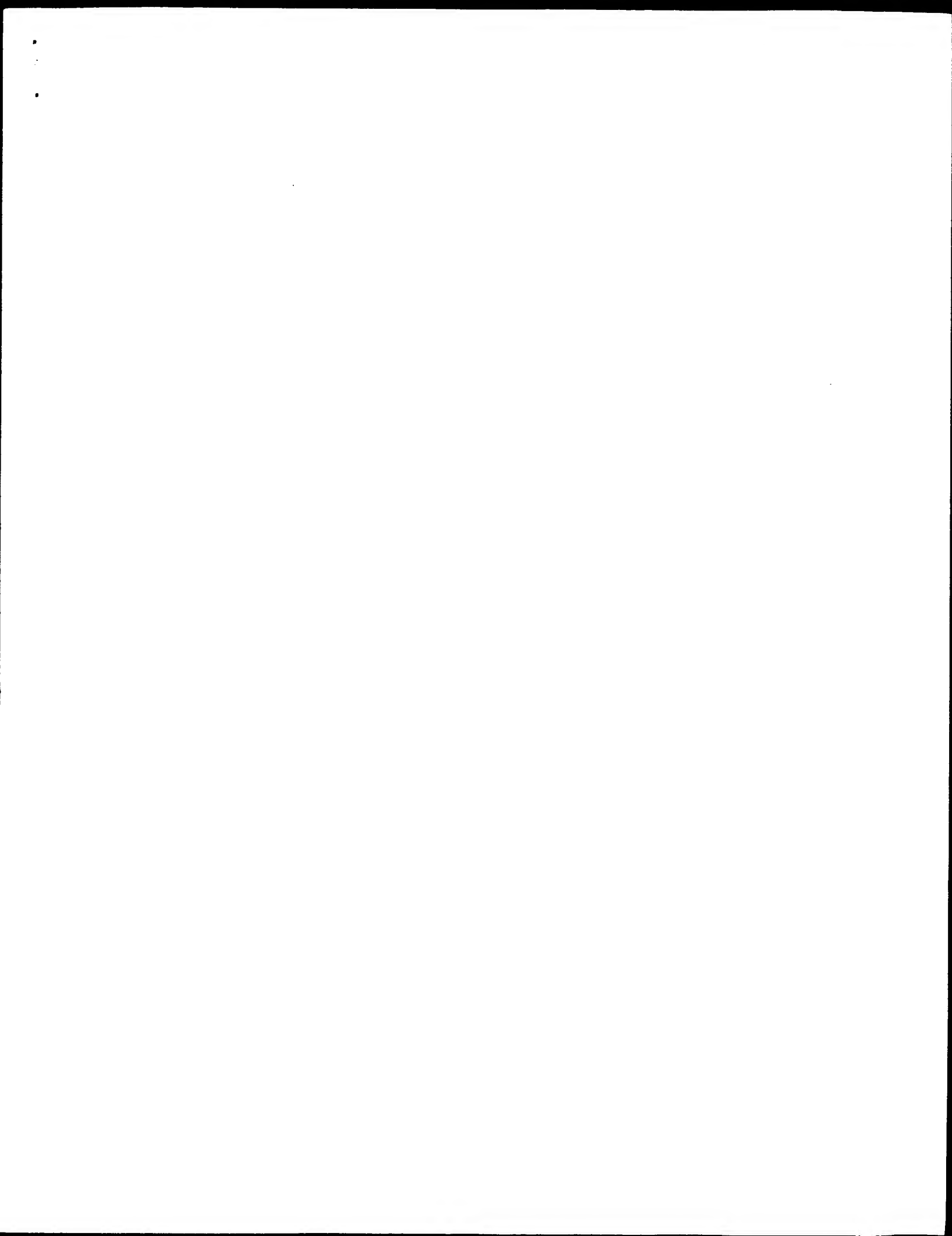
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Db       7 GGGAGG 2

RESULT 15
AR058772
LOCUS      AR058772      10 bp      DNA      linear      PAT 29-SEP-1999
DEFINITION Sequence 349 from patent US 5837832.
ACCESSION  AR058772
VERSION     AR058772.1 GI:5984349
KEYWORDS

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SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)
AUTHORS Chee,M., Cronin,M.T., Fodor,S.P.A., Huang,X.X., Hubbell,E.A.,
Lipshutz,R.J., Lobbman,P.E., Morris,M.S. and Sheldon,E.L.
TITLE Arrays of nucleic acid probes on biological chips
JOURNAL Patent: US 5837832-A 349 17-NOV-1998;
FEATURES location/qualifiers
1..10
source /organism="unknown"
BASE COUNT 0 a 7 c 1 g 2 t
ORIGIN
Query Match 100.0%; Score 6; DB 6; Length 10;
Best Local Similarity 100.0%; Pred. NO. 9.7e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGGAGG 6
|||||
Db 8 GGGAGG 3

Search completed: October 29, 2002, 18:52:11
Job time : 335.474 secs



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OM nucleic - nucleic search, using sw model

Run on: October 30, 2002, 07:47:46 ; Search time 15.0526 Seconds
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Title: US-09-735-363a-45

Perfect score: 6

Sequence: 1 999aag 6

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Gapop 10.0, Gapext 1.0

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Total number of hits satisfying chosen parameters: 543772

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents, NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6	100.0	8	1	US-08-187-749-11 Sequence 11, Appl
2	6	100.0	8	3	US-09-069-434-11 Sequence 11, Appl
3	6	100.0	8	3	US-09-069-434-12 Sequence 12, Appl
4	6	100.0	8	3	US-09-069-434-13 Sequence 13, Appl
5	6	100.0	8	5	PCR-US95-01104-11 Sequence 11, Appl
6	6	100.0	9	2	US-08-605-163-6 Sequence 6, Appl
7	6	100.0	10	1	US-07-963-723A-3 Sequence 3, Appl
8	6	100.0	10	2	US-08-441-887A-96 Sequence 96, Appl
9	6	100.0	10	2	US-08-441-887A-348 Sequence 348, App
10	6	100.0	10	2	US-08-441-887A-349 Sequence 349, App
11	6	100.0	10	2	US-08-441-887A-350 Sequence 350, App
12	6	100.0	10	2	US-08-441-887A-351 Sequence 351, App
13	6	100.0	10	2	US-08-590-571-29 Sequence 29, Appl
14	6	100.0	10	3	US-08-906-691-19 Sequence 19, Appl
15	6	100.0	10	5	PCR-US93-10072-3 Sequence 3, Appl
16	6	100.0	11	1	US-08-233-030-60 Sequence 60, Appl
17	6	100.0	11	2	US-08-441-887A-39 Sequence 39, Appl
18	6	100.0	11	2	US-08-441-887A-38 Sequence 58, Appl
19	6	100.0	11	2	US-08-441-887A-228 Sequence 228, App
20	6	100.0	11	2	US-08-173-489C-50 Sequence 50, Appl
21	6	100.0	11	2	US-08-173-489C-53 Sequence 53, Appl
22	6	100.0	11	2	US-08-173-489C-54 Sequence 54, Appl
23	6	100.0	11	2	US-08-173-489C-121 Sequence 121, App
24	6	100.0	11	2	US-08-173-489C-122 Sequence 122, App
25	6	100.0	11	2	US-08-173-489C-133 Sequence 133, App
26	6	100.0	11	2	US-08-173-489C-150 Sequence 150, App
27	6	100.0	11	2	US-08-173-489C-159 Sequence 159, App

28	6	100.0	11	2	US-08-173-489C-195	Sequence 195, App
29	6	100.0	11	4	US-09-009-490A-95	Sequence 95, Appl
30	6	100.0	12	1	US-07-974-447-12	Sequence 12, Appl
31	6	100.0	12	1	US-08-149-199-12	Sequence 12, Appl
32	6	100.0	12	1	US-08-049-283A-3	Sequence 3, Appl
33	6	100.0	12	1	US-08-214-603-12	Sequence 12, Appl
34	6	100.0	12	1	US-08-408-656-1	Sequence 1, Appl
35	6	100.0	12	1	US-08-408-656-2	Sequence 2, Appl
36	6	100.0	12	1	US-08-408-656-3	Sequence 3, Appl
37	6	100.0	12	2	US-08-858-767-10	Sequence 10, Appl
38	6	100.0	12	2	US-08-858-767-12	Sequence 12, Appl
39	6	100.0	12	2	US-08-441-887A-335	Sequence 335, App
40	6	100.0	12	2	US-08-441-887A-336	Sequence 336, App
41	6	100.0	12	2	US-08-441-887A-337	Sequence 337, App
42	6	100.0	12	2	US-08-441-887A-338	Sequence 338, App
43	6	100.0	12	2	US-08-441-887A-339	Sequence 339, App
44	6	100.0	12	2	US-08-863-028-10	Sequence 10, Appl
45	6	100.0	12	2	US-08-863-028-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1

US-08-187-749-11 Application US/08187749
Sequence 11, Patent No. 5523470

GENERAL INFORMATION:

APPLICANT: Cohen, S. Aharon,
Applicant: Belenky, Alexei and
Applicant: Ott, Christopher M.

TITLE OF INVENTION: DNA Sequencing Using
TITLE OF INVENTION: High Pressure Capillary
TITLE OF INVENTION: Electrophoresis

NUMBER OF SEQUENCES: 21

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lappin & Kusner

STREET: 200 State Street

CITY: Boston

STATE: Massachusetts

COUNTRY: USA

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/187,749

FILING DATE:

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Kermer, Ann-Louise

REGISTRATION NUMBER: 33,523

REFERENCE/DOCKET NUMBER: HYZ-013

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-330-1300

TELEFAX: 617-330-1311

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 8 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-08-187-749-11

Query Match 100.0%; Score 6; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+07;
Matches 6; Conservative 0; Mismatches 0; Indels 0;

OY 1 GGGAGG 6
|||||
DB 1 GGGAGG 6

RESULT 2

US-09-069-434-11

Sequence 11, Application US/09069434

Patent No. 6017709

GENERAL INFORMATION:

APPLICANT: HARDIN, Susan H.

APPLICANT: YING, Jun

APPLICANT: JONES, Leslie Burgran

TITLE OF INVENTION: DNA Replication Templates Stabilized by

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100

CITY: Houston

STATE: Texas

COUNTRY: U.S.A.

ZIP: 77010-3095

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/069,434

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: DAVIDSON, Ross E.

REGISTRATION NUMBER: P-41,698

REFERENCE/DOCKET NUMBER: P-01480U50

TELECOMMUNICATION INFORMATION:

TELEPHONE: 713/651-5144

TELEFAX: 713/651-5246

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 8 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "Oligonucleotide"

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-09-069-434-11

Query Match

100.0%; Score 6; DB 3; Length 8;

Best local Similarity 100.0%; Pred. No. 2.8e+07;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGAGG 6
|||||
DB 3 GGGAGG 8

RESULT 3

US-09-069-434-12

Sequence 12, Application US/09069434

Patent No. 6017709

GENERAL INFORMATION:

APPLICANT: HARDIN, Susan H.

APPLICANT: YING, Jun

APPLICANT: JONES, Leslie Burgran

TITLE OF INVENTION: DNA Replication Templates Stabilized by

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/069,434

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: DAVIDSON, Ross E.

REGISTRATION NUMBER: P-41,698

REFERENCE/DOCKET NUMBER: P-01480U50

TELECOMMUNICATION INFORMATION:

TELEPHONE: 713/651-5144

TELEFAX: 713/651-5246

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 8 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "Oligonucleotide"

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-09-069-434-12

Query Match 100.0%; Score 6; DB 3; Length 8;
Best local Similarity 100.0%; Pred. No. 2.8e+07;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGAGG 6
|||||
DB 2 GGGAGG 7

RESULT 4

US-09-069-434-13

Sequence 13, Application US/09069434

Patent No. 6017709

GENERAL INFORMATION:

APPLICANT: HARDIN, Susan H.

APPLICANT: YING, Jun

APPLICANT: JONES, Leslie Burgran

TITLE OF INVENTION: DNA Replication Templates Stabilized by

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100

CITY: Houston

STATE: Texas

COUNTRY: U.S.A.

ZIP: 77010-3095

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/069,434

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: DAVIDSON, Ross E.

REGISTRATION NUMBER: P-41,698

REFERENCE/DOCKET NUMBER: P-01480U50

TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5144
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Oligonucleotide"
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-09-069-434-13

Query Match
Best local Similarity 100.0%; Score 6; DB 3; Length 8;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
DB 1 GGGAGG 6

RESULT 5
PCT-US95-01104-11
Sequence 11, Application PC/TUS501104
GENERAL INFORMATION:
APPLICANT: Cohen, S. Aharon,
APPLICANT: Belenky, Alexei and
APPLICANT: Ott, Christopher M.
TITLE OF INVENTION: A Method of Sequencing
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lappin & Kusmer
STREET: 200 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/01104
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: HYZ-013PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-330-1300
TELEFAX: 617-330-1311
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
PCT-US95-01104-11

Query Match
Best local Similarity 100.0%; Score 6; DB 5; Length 8;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
DB 1 GGGAGG 6

DB 1 GGGAGG 6

RESULT 6
US-08-605-163-6/c
Sequence 6, Application US/08605163
Patent No. 5879886
GENERAL INFORMATION:
APPLICANT: Meo, Tommaso
APPLICANT: Tosi, Mario
APPLICANT: Verpy, Elisabeth
APPLICANT: Biasotto, Michel
TITLE OF INVENTION: Method for Detecting Molecules
TITLE OF INVENTION: Containing Nucleotide Mismatches and the Location of These
TITLE OF INVENTION: Mismatches, and Application to the Detection of Base
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finegan, Henderson, Farabow, Garrett &
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US-08/605,163
FILING DATE: 08-MAR-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05986.0005-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-605-163-6

Query Match
Best local Similarity 100.0%; Score 6; DB 2; Length 9;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
DB 7 GGGAGG 2

RESULT 7
US-07-963-723A-3/c
Sequence 3, Application US/07963723A
Patent No. 5494794
GENERAL INFORMATION:
APPLICANT: Wallace, Douglas C.
TITLE OF INVENTION: Detection of Mitochondrial DNA Mutations
TITLE OF INVENTION: Associated with Alzheimer's Disease and Parkinson's
TITLE OF INVENTION: Disease
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Needle & Rosenberg, P.C.
STREET: 133 Carnegie Way, N.W., Suite 400

CITY: Atlanta
STATE: Georgia
COUNTRY: U.S.A.
ZIP: 30301
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/963,723A
FILING DATE: 19921020
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Perryman, David G.
REGISTRATION NUMBER: 33,438
REFERENCE/DOCKET NUMBER: 0510,027
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 688-0770
TELEFAX: (404) 688-9880
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-07-963-723A-3

Query Match 100.0%; Score 6; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.9e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
DB 9 GGGAGG 4

RESULT 8
US-08-441-887A-96
Sequence 96, Application US/08441887A
Patent No. 5837832
GENERAL INFORMATION:
APPLICANT: Chee, Mark
APPLICANT: Cronin, Maureen T.
APPLICANT: Fodor, Stephen P.A.
APPLICANT: Huang, Xiaohua X.
APPLICANT: Hubbell, Earl A.
APPLICANT: Lipschutz, Robert J.
APPLICANT: Lobban, Peter E.
APPLICANT: Morris, Macdonald S.
APPLICANT: Sheldon, Edward L.
TITLE OF INVENTION: Arrays of Nucleic Acid Probes on
NUMBER OF SEQUENCES: 360
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,887A
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/143,312

FILING DATE: 26-OCT-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/082,937
FILING DATE: 25-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Liebeschuetz, Joseph O.
REGISTRATION NUMBER: 37,505
REFERENCE/DOCKET NUMBER: 018547-00416005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-326-2400
TELEFAX: 650-326-2422
INFORMATION FOR SEQ ID NO: 96:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (probe)
US-08-441-887A-96

Query Match 100.0%; Score 6; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.9e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
DB 5 GGGAGG 10

RESULT 9
US-08-441-887A-348/C
Sequence 348, Application US/08441887A
Patent No. 5837832
GENERAL INFORMATION:
APPLICANT: Chee, Mark
APPLICANT: Cronin, Maureen T.
APPLICANT: Fodor, Stephen P.A.
APPLICANT: Huang, Xiaohua X.
APPLICANT: Hubbell, Earl A.
APPLICANT: Lipschutz, Robert J.
APPLICANT: Lobban, Peter E.
APPLICANT: Morris, Macdonald S.
APPLICANT: Sheldon, Edward L.
TITLE OF INVENTION: Arrays of Nucleic Acid Probes on
NUMBER OF SEQUENCES: 360
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,887A
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/143,312
FILING DATE: 26-OCT-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/082,937
FILING DATE: 25-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Liebeschuetz, Joseph O.
REGISTRATION NUMBER: 37,505

REFERENCE/DOCKET NUMBER: 018547-00416005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-326-2400
TELEFAX: 650-326-2422
INFORMATION FOR SEQ ID NO: 348:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (probe)
US-08-441-887A-348

Query Match 100.0%; Score 6; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.9e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
DB 7 GGGAGG 2

RESULT 10
US-08-441-887A-349/c
Sequence 349, Application US/08441887A
Patent No. 5837832
GENERAL INFORMATION:
APPLICANT: Chee, Mark
APPLICANT: Cronin, Maureen T.
APPLICANT: Fodor, Stephen P.A.
APPLICANT: Huang, Xiaohua X.
APPLICANT: Hubbard, Earl A.
APPLICANT: Lipshutz, Robert J.
APPLICANT: Lobban, Peter E.
APPLICANT: Morris, Macdonald S.
APPLICANT: Sheldon, Edward L.
TITLE OF INVENTION: Arrays of Nucleic Acid Probes on
NUMBER OF SEQUENCES: 360
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,887A
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/082,937
FILING DATE: 25-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Liebeschuetz, Joseph O.
REGISTRATION NUMBER: 37,505
REFERENCE/DOCKET NUMBER: 018547-00416005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-326-2400
TELEFAX: 650-326-2422
INFORMATION FOR SEQ ID NO: 349:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (probe)
US-08-441-887A-349

Query Match 100.0%; Score 6; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.9e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
DB 8 GGGAGG 3

RESULT 11
US-08-441-887A-350/c
Sequence 350, Application US/08441887A
Patent No. 5837832
GENERAL INFORMATION:
APPLICANT: Chee, Mark
APPLICANT: Cronin, Maureen T.
APPLICANT: Fodor, Stephen P.A.
APPLICANT: Huang, Xiaohua X.
APPLICANT: Hubbard, Earl A.
APPLICANT: Lipshutz, Robert J.
APPLICANT: Lobban, Peter E.
APPLICANT: Morris, Macdonald S.
APPLICANT: Sheldon, Edward L.
TITLE OF INVENTION: Arrays of Nucleic Acid Probes on
NUMBER OF SEQUENCES: 360
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,887A
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/143,312
FILING DATE: 26-OCT-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/082,937
FILING DATE: 25-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Liebeschuetz, Joseph O.
REGISTRATION NUMBER: 37,505
REFERENCE/DOCKET NUMBER: 018547-00416005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-326-2400
TELEFAX: 650-326-2422
INFORMATION FOR SEQ ID NO: 350:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (probe)
US-08-441-887A-350

Query Match 100.0%; Score 6; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.9e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
Db 9 GGGAGG 4

RESULT 12

US-08-441-887A-351/C
; Sequence 351, Application US/08441887A
; Patent No. 5837832

GENERAL INFORMATION:

APPLICANT: Chee, Mark
APPLICANT: Cronin, Maureen T.
APPLICANT: Fodor, Stephen P.A.
APPLICANT: Huang, Xiaohua X.
APPLICANT: Hubbell, Earl A.
APPLICANT: Lipschutz, Robert J.
APPLICANT: Lobban, Peter E.
APPLICANT: Morris, Macdonald S.
APPLICANT: Sheldon, Edward L.
TITLE OF INVENTION: Arrays of Nucleic Acid Probes on
TITLE OF INVENTION: Biological Chips
NUMBER OF SEQUENCES: 360
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441.887A
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/143,312
FILING DATE: 26-OCT-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 435
FILING DATE: 25-JUN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Liedschuetz, Joseph O.
REGISTRATION NUMBER: 37,505
REFERENCE/DOCKET NUMBER: 018547-004160US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-326-2400
TELEFAX: 650-326-2422

INFORMATION FOR SEQ ID NO:

351:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (probe)
US-08-441-887A-351

Query Match

Best Local Similarity 100.0%; Score 6; DB 2; Length 10;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
Db 10 GGGAGG 5

RESULT 13

US-08-590-571-29

; Sequence 29, Application US/08590571
; Patent No. 5861246

GENERAL INFORMATION:

APPLICANT: Sherman Weissman and Glirsch N. Nallur
TITLE OF INVENTION: MULTIPLE SELECTION PROCESS
NUMBER OF SEQUENCES: 66
CORRESPONDENCE ADDRESS:
ADDRESSEE: Yahwak & Associates
STREET: 25 Skytop Drive
CITY: Trumbull
STATE: Connecticut
COUNTRY: USA
ZIP: 06611

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/590,571
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yahwak
REGISTRATION NUMBER: 26,824
REFERENCE/DOCKET NUMBER: Yale
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951

INFORMATION FOR SEQ ID NO:

29:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-590-571-29

Query Match

Best Local Similarity 100.0%; Score 6; DB 2; Length 10;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||||
Db 3 GGGAGG 8

RESULT 14

US-08-906-691-19
; Sequence 19, Application US/08906691
; Patent No. 6066452

GENERAL INFORMATION:

APPLICANT: Weissman, Sherman M.
APPLICANT: Nallur, Glirsch N.
APPLICANT: Kulikarni, Prakash
TITLE OF INVENTION: MULTIPLE SELECTION TECHNIQUE FOR
IDENTIFYING PROTEIN-BINDING SITES FOR DNA-BINDING PROTEINS
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 981094

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/906,691
FILING DATE: 31-JUL-1997

```

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: NO. 6066452endburg Ph.D., Carol
REGISTRATION NUMBER: 39,317
REFERENCE/DOCKET NUMBER: 390036,403C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-906-691-19

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Query Match      100.0%; Score 6; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.9e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
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DB 3 GGGAGG 8

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RESULT 15
PCT-US93-10072-3/C
; Sequence 3, Application PC/TUS9310072
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: "DETECTION OF MITOCHONDRIAL DNA
; TITLE OF INVENTION: MUTATIONS
; TITLE OF INVENTION: ASSOCIATED WITH ALZHEIMER'S DISEASE AND PARKINSON'S
; TITLE OF INVENTION: DISEASE"
; NUMBER OF SEQUENCES: 3
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 EPO
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/10072
; FILING DATE: 20-OCT-1993
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 07/963,723
; FILING DATE: 20-OCT-1992
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
PCT-US93-10072-3

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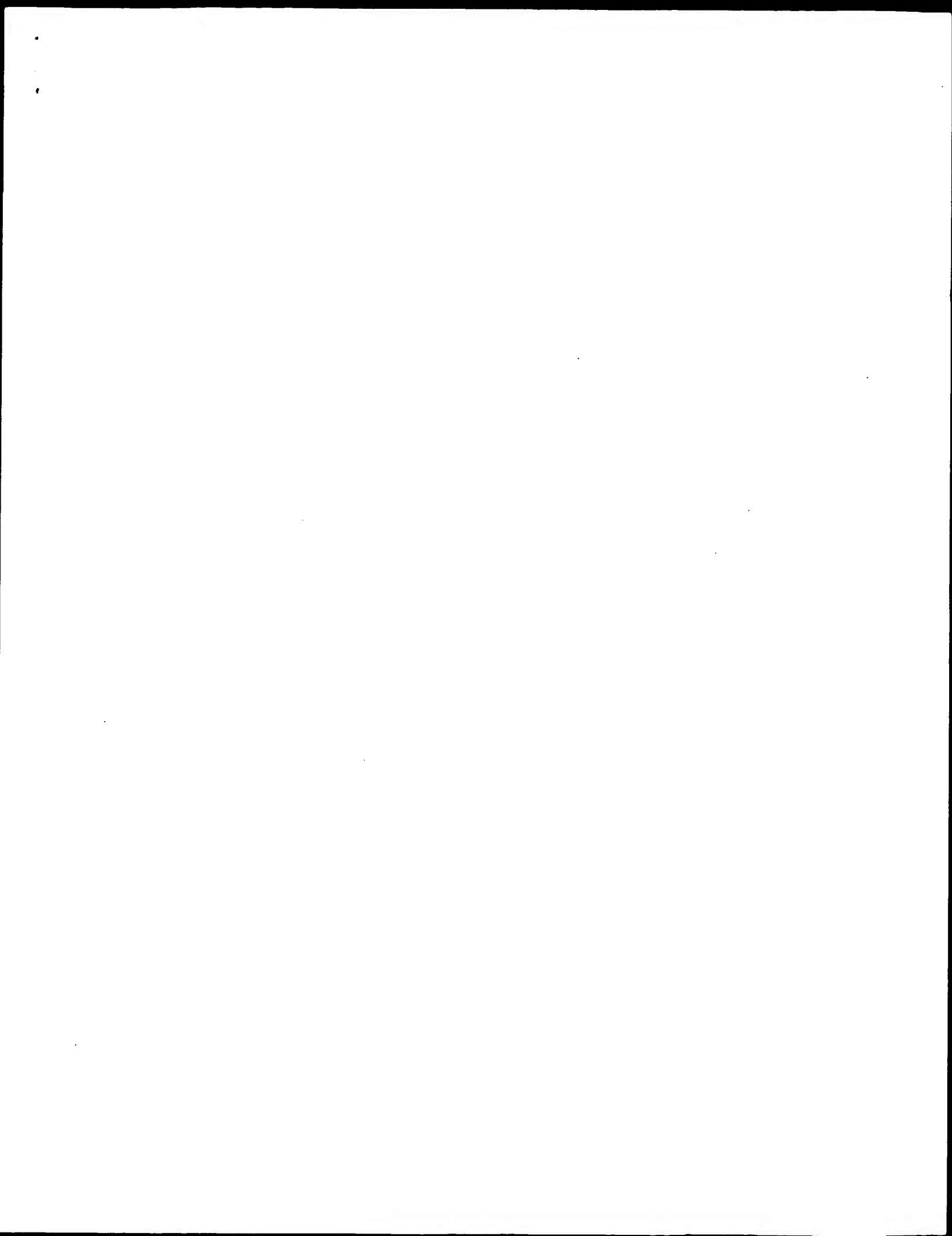
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Query Match      100.0%; Score 6; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.9e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
    |||||
DB 9 GGGAGG 4

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Search completed: October 30, 2002, 09:01:05
 Job time : 16.0526 secs



GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: October 29, 2002, 07:58:22 : Search time 68.6316 Seconds
(without alignments)
150.098 Million cell updates/sec

Title: US-09-735-363A-45

Perfect score: 6

Sequence: 1 gggaggg 6

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 1736436 seqs, 858457221 residues

Total number of hits satisfying chosen parameters: 1905168

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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- 2: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*
- 3: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*
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- 14: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT:*
- 15: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT:*
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- 19: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT:*
- 20: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
- 21: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:*
- 22: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:*
- 23: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*
- 24: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6	100.0	8	21	AAZ56810
2	6	100.0	8	21	AAZ56811
3	6	100.0	8	21	AAZ56812
4	6	100.0	9	13	AAQ25521
5	6	100.0	9	18	AAT80306
6	6	100.0	9	18	AAT80313
7	6	100.0	9	19	AAV28792
8	6	100.0	9	22	AAI15357
9	6	100.0	10	13	AAQ25520

C 10	6	100.0	10	15	AAQ64610	Alzheimer's/Parkin
C 11	6	100.0	10	15	AAQ79358	Sequence of Ap2 re
C 12	6	100.0	10	16	AAQ88493	Human mitochondria
C 13	6	100.0	10	18	AAQ98848	Binding site BSN6
C 14	6	100.0	10	19	AAV35963	Primer used in RAP
C 15	6	100.0	10	21	AAQ68262	Lama2/APPA transge
C 16	6	100.0	10	21	AAQ60708	Polynucleotide dir
C 17	6	100.0	10	21	AAQ61013	Protein binding se
C 18	6	100.0	10	21	AAQ56520	Human macrophage g
C 19	6	100.0	10	21	AAQ56547	Human macrophage g
C 20	6	100.0	10	21	AAQ61450	Primer SP8F1 for g
C 21	6	100.0	10	21	AAQ77620	Human dendritic ce
C 22	6	100.0	10	21	AAQ77707	Human dendritic ce
C 23	6	100.0	10	21	AAQ78095	Human dendritic ce
C 24	6	100.0	10	21	AAQ78160	Human dendritic ce
C 25	6	100.0	10	21	AAQ78232	Human dendritic ce
C 26	6	100.0	10	21	AAQ78730	Human dendritic ce
C 27	6	100.0	10	21	AAQ78790	Human dendritic ce
C 28	6	100.0	10	21	AAQ78869	Human dendritic ce
C 29	6	100.0	10	21	AAQ79049	Human dendritic ce
C 30	6	100.0	10	21	AAQ79339	Human dendritic ce
C 31	6	100.0	10	21	AAQ79354	Human dendritic ce
C 32	6	100.0	10	21	AAQ79555	Human dendritic ce
C 33	6	100.0	10	21	AAQ79748	Human dendritic ce
C 34	6	100.0	10	21	AAQ79834	Human colon prefer
C 35	6	100.0	10	21	AAQ81223	Human lung tumour
C 36	6	100.0	10	21	AAQ81472	Metastatic breast
C 37	6	100.0	10	21	AAQ81562	Metastatic breast
C 38	6	100.0	10	21	AAQ81588	Metastatic breast
C 39	6	100.0	10	21	AAQ81666	Metastatic breast
C 40	6	100.0	10	21	AAQ81824	Metastatic breast
C 41	6	100.0	10	21	AAQ81925	Metastatic breast
C 42	6	100.0	10	21	AAQ82099	Metastatic breast
C 43	6	100.0	10	21	AAQ82131	Metastatic breast
C 44	6	100.0	10	21	AAQ82177	Metastatic breast
C 45	6	100.0	10	21	AAQ82355	Metastatic breast

ALIGNMENTS

RESULT 1
AAZ56810 standard; DNA; 8 BP.

AC	AAZ56810:	
XX		
XX		
DT	25-APR-2000 (first entry)	
XX		
DE	Asub variant oligonucleotide primer P1.	
XX		
KW	Therapeutic: antagonist; high intensity data; HTD; HIV-1; integrase;	
KM	cancer; DNA polymerase; telomerase; aging process; primer; ss.	
XX		
OS	Synthetic.	
PN	US6017709-A.	
XX		
PD	25-JAN-2000.	
XX		
PF	29-APR-1998; 98US-0069434.	
XX		
PR	29-APR-1998; 98US-0069434.	
XX		
PA	(UYHO-) UNIV HOUSTON.	
XX		
PI	Hardin SH, Jones LB, Ying J;	
XX		
DR	WPI; 2000-136671/12.	
XX		
PT	Screening for therapeutic agents which modulate non-Watson-Crick	
PT	guanine quartet formation comprises measuring the amount of high	
PT	intensity data produced by guanine-rich oligonucleotides in the	

PT presence of candidate agents -
 XX
 XX Claim 5; Column 4; 20pp; English.
 XX
 CC The invention provides a method of screening for potential therapeutic
 CC agents which have antagonistic or agonistic activity for the formation
 CC of non-Watson-Crick guanine quartets that stabilize higher order guanine
 CC rich oligonucleotide (ON) structures. The method comprises: (a) priming
 CC a sequence reaction, in the presence of a test agent, with an ON where
 CC the ON forms a non-Watson-Crick structure and produces high intensity
 CC data (HID); and (b) measuring the amount of HID production where a
 CC decrease in or elimination of the HID is indicative of antagonistic
 CC activity, and an increase in the HID is indicative of agonistic
 CC activity. The agents could then be used to modulate guanine quartets
 CC formations which are involved in HIV-1 integrase inhibition, synapsis
 CC formation during meiosis and telomeric maintenance. The method can be
 CC modified for determining the susceptibility to cancer by measuring the
 CC level of DNA polymerase activity at a quartet stabilized template. The
 CC ONs, capable of forming a non-Watson-Crick structure and HID, are used to
 CC promote the elongation of telomeres by the action of DNA polymerases
 CC and therefore inhibit the aging process. The present sequence represents
 CC a guanine-rich oligo that can be used in the method of the invention.
 XX
 SQ Sequence 8 BP; 2 A; 0 C; 6 G; 0 U; 0 other;
 Query Match 100.0%; Score 6; DB 21; Length 8;
 Best Local Similarity 100.0%; Pred. No. 2e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GGGAGG 6
 |||||
 DB 3 GGGAGG 8
 RESULT 2
 AA256811
 ID AA256811 standard; DNA; 8 BP.
 AC AA256811;
 XX
 DT 25-APR-2000 (first entry)
 XX
 DE Asub variant oligonucleotide primer P2.
 XX
 KW Therapeutic; antagonist; high intensity data; HID; HIV-1; integrase;
 KW cancer; DNA polymerase; telomerase; aging process; primer; ss.
 XX
 OS Synthetic.
 XX
 PN US6017709-A.
 PD 25-JAN-2000.
 XX
 PE 29-APR-1998; 98US-0069434.
 XX
 PR 29-APR-1998; 98US-0069434.
 XX
 PA (UYHO-) UNIV HOUSTON.
 PI Hardin SH, Jones LB, Ying J;
 XX
 DR WPI; 2000-136671/12.
 XX
 PT Screening for therapeutic agents which modulate non-Watson-Crick
 PT guanine quartet formation comprises measuring the amount of high
 PT intensity data produced by guanine-rich oligonucleotides in the
 PT presence of candidate agents -
 XX
 PS Claim 5; Column 4; 20pp; English.
 XX
 CC The invention provides a method of screening for potential therapeutic
 CC agents which have antagonistic or agonistic activity for the formation
 CC of non-Watson-Crick guanine quartets that stabilize higher order guanine
 CC rich oligonucleotide (ON) structures. The method comprises: (a) priming
 CC a sequence reaction, in the presence of a test agent, with an ON where
 CC the ON forms a non-Watson-Crick structure and produces high intensity
 CC data (HID); and (b) measuring the amount of HID production where a
 CC decrease in or elimination of the HID is indicative of antagonistic
 CC activity, and an increase in the HID is indicative of agonistic
 CC activity. The agents could then be used to modulate guanine quartets
 CC formations which are involved in HIV-1 integrase inhibition, synapsis
 CC formation during meiosis and telomeric maintenance. The method can be
 CC modified for determining the susceptibility to cancer by measuring the
 CC level of DNA polymerase activity at a quartet stabilized template. The
 CC ONs, capable of forming a non-Watson-Crick structure and HID, are used to
 CC promote the elongation of telomeres by the action of DNA polymerases
 CC and therefore inhibit the aging process. The present sequence represents
 CC a guanine-rich oligo that can be used in the method of the invention.
 XX
 SQ Sequence 8 BP; 2 A; 0 C; 6 G; 0 U; 0 other;
 Query Match 100.0%; Score 6; DB 21; Length 8;
 Best Local Similarity 100.0%; Pred. No. 2e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GGGAGG 6
 |||||
 DB 2 GGGAGG 7

-rich oligonucleotide (ON) structures. The method comprises: (a) priming
 CC a sequence reaction, in the presence of a test agent, with an ON where
 CC the ON forms a non-Watson-Crick structure and produces high intensity
 CC data (HID); and (b) measuring the amount of HID production where a
 CC decrease in or elimination of the HID is indicative of antagonistic
 CC activity, and an increase in the HID is indicative of agonistic
 CC activity. The agents could then be used to modulate guanine quartets
 CC formations which are involved in HIV-1 integrase inhibition, synapsis
 CC formation during meiosis and telomeric maintenance. The method can be
 CC modified for determining the susceptibility to cancer by measuring the
 CC level of DNA polymerase activity at a quartet stabilized template. The
 CC ONs, capable of forming a non-Watson-Crick structure and HID, are used to
 CC promote the elongation of telomeres by the action of DNA polymerases
 CC and therefore inhibit the aging process. The present sequence represents
 CC a guanine-rich oligo that can be used in the method of the invention.
 XX
 SQ Sequence 8 BP; 2 A; 0 C; 6 G; 0 U; 0 other;
 Query Match 100.0%; Score 6; DB 21; Length 8;
 Best Local Similarity 100.0%; Pred. No. 2e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GGGAGG 6
 |||||
 DB 2 GGGAGG 7
 RESULT 3
 AA256812
 ID AA256812 standard; DNA; 8 BP.
 AC AA256812;
 XX
 DT 25-APR-2000 (first entry)
 XX
 DE Asub variant oligonucleotide primer P3.
 XX
 KW Therapeutic; antagonist; high intensity data; HID; HIV-1; integrase;
 KW cancer; DNA polymerase; telomerase; aging process; primer; ss.
 XX
 OS Synthetic.
 XX
 PN US6017709-A.
 PD 25-JAN-2000.
 XX
 PE 29-APR-1998; 98US-0069434.
 XX
 PR 29-APR-1998; 98US-0069434.
 XX
 PA (UYHO-) UNIV HOUSTON.
 PI Hardin SH, Jones LB, Ying J;
 XX
 DR WPI; 2000-136671/12.
 XX
 PT Screening for therapeutic agents which modulate non-Watson-Crick
 PT guanine quartet formation comprises measuring the amount of high
 PT intensity data produced by guanine-rich oligonucleotides in the
 PT presence of candidate agents -
 XX
 PS Claim 5; Column 4; 20pp; English.
 XX
 CC The invention provides a method of screening for potential therapeutic
 CC agents which have antagonistic or agonistic activity for the formation
 CC of non-Watson-Crick guanine quartets that stabilize higher order guanine
 CC rich oligonucleotide (ON) structures. The method comprises: (a) priming
 CC a sequence reaction, in the presence of a test agent, with an ON where
 CC the ON forms a non-Watson-Crick structure and produces high intensity
 CC data (HID); and (b) measuring the amount of HID production where a
 CC decrease in or elimination of the HID is indicative of antagonistic
 CC activity, and an increase in the HID is indicative of agonistic
 CC activity. The agents could then be used to modulate guanine quartets
 CC formations which are involved in HIV-1 integrase inhibition, synapsis
 CC formation during meiosis and telomeric maintenance. The method can be
 CC modified for determining the susceptibility to cancer by measuring the
 CC level of DNA polymerase activity at a quartet stabilized template. The
 CC ONs, capable of forming a non-Watson-Crick structure and HID, are used to
 CC promote the elongation of telomeres by the action of DNA polymerases
 CC and therefore inhibit the aging process. The present sequence represents
 CC a guanine-rich oligo that can be used in the method of the invention.
 XX
 SQ Sequence 8 BP; 2 A; 0 C; 6 G; 0 U; 0 other;
 Query Match 100.0%; Score 6; DB 21; Length 8;
 Best Local Similarity 100.0%; Pred. No. 2e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GGGAGG 6
 |||||
 DB 2 GGGAGG 7

CC formations which are involved in HIV-1 integrase inhibition, synapsis
 CC formation during meiosis and telomeric maintenance. The method can be
 CC modified for determining the susceptibility to cancer by measuring the
 CC level of DNA polymerase activity at a quartet stabilized template. The
 CC ons, capable of forming a non-Watson-Crick structure and HIV, are used to
 CC promote the elongation of telomerases by the action of DNA polymerases
 CC and therefore inhibit the aging process. The present sequence represents
 CC a guanine-rich oligo that can be used in the method of the invention.
 XX
 SQ Sequence 8 BP; 2 A; 0 C; 6 G; 0 U; 0 other;

Query Match 100.0%; Score 6; DB 21; Length 8;
 Best Local Similarity 100.0%; Pred. No. 2e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGAGG 6
 |||||
 Db 1 GGGAGG 6

RESULT 4
 AAQ25521
 ID AAQ25521 standard; DNA; 9 BP.
 AC AAQ25521;
 XX
 DT 01-DEC-1992 (first entry)
 XX
 DE Antisense nucleic acid derivative 20.
 XX
 KW HIV; ras; c-myp; AIDS-related complex; ss.
 XX
 OS Synthetic.
 XX
 PN WO9208729-A.
 XX
 PD 29-MAY-1992.
 XX
 PF 18-NOV-1991; 91WO-JP01572.
 XX
 PR 20-NOV-1990; 90JP-0315007.
 XX
 PA (SANY) SANKYO CO LTD.
 XX
 PI Furukawa H, Hotoda H, Kaneko M, Momota K, Takiguchi Y;
 XX
 DR WPI; 1992-200131/24.

PT New antiviral and antitumoural antisense nucleic acid derivs. -
 PT useful for treating AIDS and AIDS-related complex
 XX
 PS Claim 79; Page 201; 235pp; Japanese.
 XX
 CC The sequences given in AAQ25502-21 are nucleic acid derivatives which
 CC are complementary to either a viral or a tumor gene ie, the sequence
 CC is complementary to the HIV gene at 7947-7975 on the viral genome or
 CC to the ras or c-myp oncogenes. These derivatives are useful as
 CC anticancer and antiviral agents, esp. for the treatment of AIDS and
 CC AIDS-related complex. They may be given orally or parenterally.
 CC The derivatives were tritiated so that they could be monitored
 CC easily.
 XX
 SQ Sequence 9 BP; 1 A; 0 C; 6 G; 2 T; 0 other;

Query Match 100.0%; Score 6; DB 13; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.8e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGAGG 6
 |||||
 Db 2 GGGAGG 7

RESULT 5
 AAT80306
 ID AAT80306 standard; DNA; 9 BP.
 XX
 AC AAT80306;
 XX
 DT 16-OCT-1997 (first entry)
 XX
 DE Oligo HCV-186, targeted to HCV mRNA position -216 to -208.
 XX
 KW Complementary; 5' untranslated region; UTR; hepatitis C virus; HCV;
 KW inhibition; replication; expression; detection; chronic hepatitis;
 KW acute hepatitis; hepatocarcinoma; ss.
 XX
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT modified_base 1..9
 FT /*tag= a
 FT /note= "Comprises phosphorothioate linkages"

WO9639500-A2.
 PD 12-DEC-1996.
 XX
 PF 04-JUN-1996; 96WO-EP02427.
 XX
 PR 06-JUN-1995; 95US-0471968.
 XX
 PA (HOFF) HOFFMANN LA ROCHE & CO AG F.
 PA (HYBR-) HYBRIDON INC.
 XX
 PI Frank BL, Goodchild J, Hamlin HA, Kiluskie RE;
 PI Roberts NA, Roberts PC, Walthers DM, Wolfe JL;
 XX
 DR WPI; 1997-043122/04.

PT Oligo:nucleotide(s) complementary to HCV 5' untranslated region -
 PT used in the treatment and detection of HCV infection, esp. hepatitis
 PT and hepatocarcinoma
 XX
 PS Claim 1; Page 17; 100pp; English.
 XX
 CC The sequences given in AAT80211-382 represent synthetic oligonucleotides
 CC which are complementary to a portion of the 5' untranslated region (UTR)
 CC of hepatitis C virus (HCV). These sequences may be used in a
 CC pharmaceutical composition for the control or prevention of HCV
 CC infection. They may be used to inhibit replication or expression of
 CC HCV or for detecting the presence of HCV in a sample. They may be used
 CC to inhibit HCV replication in a cell and are therefore useful in the
 CC treatment of HCV infections such as chronic and acute hepatitis and
 CC hepatocarcinoma.
 XX
 SQ Sequence 9 BP; 1 A; 3 C; 5 G; 0 U; 0 other;

Query Match 100.0%; Score 6; DB 18; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.8e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGAGG 6
 |||||
 Db 4 GGGAGG 9

RESULT 6
 AAT80313/C
 ID AAT80313 standard; RNA; 9 BP.
 XX
 AC AAT80313;
 XX
 DT 16-OCT-1997 (first entry)
 XX
 DE Oligo HCV-193, targeted to HCV mRNA position -27 to -19.

```

XX XX Complementary: 5' untranslated region: UTR: hepatitis C virus; HCV;
KW inhibition; replication: expression; detection; chronic hepatitis;
KM acute hepatitis; hepatocarcinoma; ss.
XX
XX Synthetic.
FH
FT Key location/Qualifiers
FT modified_base 1..9
FT /*tag= a
FT /note= "Comprises phosphorothioate linkages"
PN WO9639500-A2.
XX
XX 12-DEC-1996.
XX
XX 04-JUN-1996; 96WO-EP02427.
XX
XX 06-JUN-1995; 95US-0471968.
XX
XX (HOFF) HOFFMANN LA ROCHE & CO AG F.
XX (HYBR-) HYBRIDON INC.
XX
XX Frank BL, Goodchild J, Hamlin HA, Kilkuskie RE;
XX Roberts NA, Roberts PC, Walthers DM, Wolfe JL;
XX
XX WPI: 1997-043122/04.
XX
XX Oligo:nucleotide(s) complementary to HCV 5' untranslated region -
PT used in the treatment and detection of HCV infection, esp. hepatitis
PT and hepato-carcinoma
XX
XX Claim 1; Page 17; 100pp; English.
XX
XX The sequences given in AAT80211-382 represent synthetic oligonucleotides
XX which are complementary to a portion of the 5' untranslated region (UTR)
XX of hepatitis C virus (HCV). These sequences may be used in a
XX pharmaceutical composition for the control or prevention of HCV
XX infection. They may be used to inhibit replication or expression of
XX HCV or for detecting the presence of HCV in a sample. They may be used
XX to inhibit HCV replication in a cell and are therefore useful in the
XX treatment of HCV infections such as chronic and acute hepatitis and
XX hepatocarcinoma.
XX
XX Sequence 9 BP; 0 A; 5 C; 3 G; 1 U; 0 other;
SQ
XX
XX Query Match 100.0%; Score 6; DB 18; Length 9;
XX Best Local Similarity 100.0%; Pred. No. 1.8e+08;
XX Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGGAGG 6
Db 111111
6 GGGAGG 1

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XX XX 02-APR-1998.
XX
XX 26-SEP-1997; 97WO-GB02629.
XX
XX 26-SEP-1996; 96GB-0020075.
XX
XX (DYNA-) DYNAL AS.
XX (DZIE/) DZIELEWSKA H E.
XX
XX Lundeborg J, Uhlen M;
XX
XX WPI: 1998-230726/20.
XX
XX Improving binding of series of nucleotide(s) to complementary target
PT nucleic acid - comprises use of oligo:nucleotide with at least two
PT modules providing more specific or stable binding, useful in, e.g.
PT amplification of target
XX
XX Claim 17; Page 52; 71pp; English.
XX
XX A method has been developed for improving the binding of a series of
XX consecutive nucleotides (nt) to a complementary target nucleic acid in
XX a sample. The method comprises binding a complementary modular
XX oligonucleotide, having at least 2 parts comprising nt, to adjacent
XX stretches of the target nucleic acid. The complementary modular
XX oligonucleotide has better binding than a single oligonucleotide
XX complementary to the region spanned by the complementary modular
XX oligonucleotide. The present sequence represents a specifically claimed
XX component of a complementary modular oligonucleotide. The complementary
XX modular oligonucleotides are used as probes or primers, for replication,
XX amplification, (reverse) transcription, sequencing, isolation and/or
XX detection of the target nucleic acid. Specific applications are
XX detection/isolation of hepatitis C virus (HCV), human immunodeficiency
XX virus (HIV), e.g. for diagnosis or monitoring of infections, or
XX (universal) primer extension products, e.g. before electrophoretic
XX separation. Use of the complementary modular oligonucleotides improves
XX binding specificity, stability or ability (probably by disrupting the
XX tertiary structure of the target nucleic acid) and the method is
XX suitable for automation since pre-hybridisation, sample lysis and bead
XX capture can be combined in a single step.
XX
XX Sequence 9 BP; 0 A; 5 C; 3 G; 1 T; 0 other;
SQ
XX
XX Query Match 100.0%; Score 6; DB 19; Length 9;
XX Best Local Similarity 100.0%; Pred. No. 1.8e+08;
XX Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGGAGG 6
Db 111111
6 GGGAGG 1

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RESULT 7
AAV28792/C
ID AAV28792 standard; DNA: 9 BP.
XX
XX AAV28792;
AC
XX 05-AUG-1998 (first entry)
XX
XX HCV isolating modular oligonucleotide H1-9.
XX
XX Hepatitis C virus; HCV; human immunodeficiency virus; HIV; probe;
XX primer extension product; binding; amplification; primer; detection;
XX isolation; module; diagnosis; ss.
XX
XX Synthetic.
XX Hepatitis C virus.
XX
XX WO9813522-A1.
PN

```

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RESULT 8
AAD15357
ID AAD15357 standard; DNA: 9 BP.
XX
XX AAD15357;
AC
XX 15-NOV-2001 (first entry)
XX
XX Human KCA4 gene target sequence.
XX
XX Human, KCA4; EPO; molecular target; zinc finger protein; ZFP;
XX cellular process; signal transduction; drug-screening; ds.
XX
XX Homo sapiens.
XX
XX WO200159450-A2.
XX
XX 16-AUG-2001.
XX
XX 08-FEB-2001; 2001WO-US04301.
PF

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XX PR 08-FEB-2000; 2000US-0181117.
 XX PA (SANG-) SANGAMO BIOSCIENCES INC.
 XX PI Case C;
 XX WPI: 2001-522491/57.
 XX Screening compound for interaction with molecular target by contacting
 PT compound with cells, comprising exogenous zinc finger protein that
 PT modulates expression of target, and determining values of properties of
 PT cells -
 XX Example 10; Page 73; 99pp; English.
 PS The invention relates to a method of screening a compound for interaction
 CC with a molecular target. The method involves contacting first and
 CC second cells with the compound and determining the values of properties
 CC of the compound. The second cell comprises an exogenous zinc finger
 CC protein (ZFP) that modulates the expression of the molecular target, or
 CC isolating membranes from cell comprising ZFP. The methods allow for high
 CC throughput screening of candidate compound and reduces the incidence of
 CC false positives. The methods are useful for screening a compound for its
 CC interaction with a molecular target or for screening a compound for its
 CC effect on a cellular process. The method is useful for testing a compound
 CC for its capacity to transduce a signal to the molecular target or its
 CC capacity to block transduction of a signal through the molecular target,
 CC and for performing biochemical drug-screening assays. The present
 CC sequence is a target sequence for human Kcat gene used in the
 CC exemplification of the invention.
 XX DT Sequence 9 BP; 1 A; 1 C; 7 G; 0 U; 0 other;
 XX SQ
 XX Query Match 100.0%; Score 6; DB 22; Length 9;
 XX Best Local Similarity 100.0%; Pred. No. 1.8e+08;
 XX Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GGGAGG 6
 DB 2 GGGAGG 7
 XX
 XX RESULT 9
 XX AAQ25520
 XX ID AAQ25520 standard; DNA; 10 BP.
 XX AC AAQ25520;
 XX XX
 XX DT 01-DEC-1992 (first entry)
 XX DE Antisense nucleic acid derivative 19.
 XX XX
 XX KW HIV; ras; c-myb; AIDS-related complex; ss.
 XX OS Synthetic.
 XX WO9208729-A.
 XX PN
 XX PD 29-MAY-1992.
 XX PF 18-NOV-1991; 91WO-JP01572.
 XX PR 20-NOV-1990; 90JP-0315007.
 XX PA (SANY) SANKYO CO LTD.
 XX PI Furukawa H, Hotoda H, Kaneko M, Momota K, Takiguchi Y;
 XX WPI: 1992-200131/24.
 XX PT New antiviral and antitumoral antisense nucleic acid derivs. -
 PT useful for treating AIDS and AIDS-related complex

XX PS Claim 78; Page 200; 235pp; Japanese.
 XX CC The sequences given in AAQ25502-21 are nucleic acid derivatives which
 CC are complementary to either a viral or a tumor gene ie. the sequence
 CC is complementary to the HIV gene at 7947-7975 on the viral genome or
 CC to the ras or c-myb oncogenes. These derivatives are useful as
 CC anticancer and antiviral agents, esp. for the treatment of AIDS and
 CC AIDS-related complex. They may be given orally or parenterally.
 CC The derivatives were titrated so that they could be monitored
 CC easily.
 XX DT Sequence 10 BP; 1 A; 0 C; 7 G; 2 T; 0 other;
 XX SQ
 XX Query Match 100.0%; Score 6; DB 13; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 3.2e+05;
 XX Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GGGAGG 6
 DB 2 GGGAGG 7
 XX
 XX RESULT 10
 XX AAQ64610/c
 XX ID AAQ64610 standard; cDNA; 10 BP.
 XX AC AAQ64610;
 XX XX
 XX DT 15-DEC-1994 (first entry)
 XX DE Alzheimer's/Parkinsons mitochondrial DNA mutation detection.
 XX KW Mitochondrial DNA mutation; associated with Alzheimer's;
 XX KW Parkinson's disease; mismatch primers; PCR; amplification;
 XX KW polymerase chain reaction; ss.
 XX OS Homo sapiens.
 XX PN WO9409162-A.
 XX PD 28-APR-1994.
 XX PF 20-OCT-1993; 93WO-US10072.
 XX PR 20-OCT-1992; 92US-0963723.
 XX PA (UYEM-) UNIV EMORY SCHOOL MEDICINE.
 XX PI Wallace DC;
 XX WPI: 1994-151346/18.
 XX DT
 XX PT Detection of mitochondrial DNA mutation associated with
 PT Alzheimer's disease and/or Parkinson's disease - for diagnosing
 PT or predicting a pre-disposition to Alzheimer's disease and/or
 PT Parkinson's disease in a patient
 XX OS
 XX PS Disclosure; Page 36; 83pp; English.
 XX CC A 12S(956-965) insertion mutation harbours a novel 12S rRNA gene
 CC insertion. Direct sequence analysis revealed that the insertion
 CC consisted of approximately five cytosines within AAQ64610.
 CC This mitochondrial DNA mutation is associated with Alzheimer's
 CC and/or Parkinson's diseases. The detection of the mutations is
 CC useful for diagnosing or predicting a pre-disposition to either
 CC of the diseases.
 XX DT Sequence 10 BP; 0 A; 9 C; 0 G; 1 T; 0 other;
 XX SQ
 XX Query Match 100.0%; Score 6; DB 15; Length 10;
 XX Best Local Similarity 100.0%; Pred. No. 3.2e+05;
 XX Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
 XX | | | | |
 DB 9 GGGAGG 4

RESULT 11
 ID AAQ79358/c
 AAQ79358 standard; DNA; 10 BP.

AC AAQ79358;

DT 05-JUN-1995 (first entry)

DE Sequence of AP2 regulatory sequence located at posn. 896 in
 DE hepsih.

KW Erythropoietin; erythropoiesis; red blood cell; regulatory element;
 KM ss.

OS Synthetic.

PN WO9423570-A.

PD 27-OCT-1994.

PF 15-APR-1994; 94WO-US04141.

PR 15-APR-1993; 93US-0046295.

PR 23-JUN-1993; 93US-0082850.

PA (UNYX) UNIV NEW YORK STATE.

PI Lee-huang S;

DR WPI; 1994-341353/42.

PT New regulatory regions of human erythropoietin gene - used for
 PT studying and treating diseases and for prodn. of transgenic
 PT animal models.

PS Disclosure; Table I, p. 12; 81pp; English.

CC AAQ79353 shows the nt. sequence of the entire 9.3 kb genomic clone
 CC hEPOSH. This nucleic acid sequence includes EPO coding sequence, a 5'
 CC flanking region contg. multiple regulatory elements and a 3'
 CC flanking region contg. multiple regulatory elements. AAQ79354 shows
 CC the extended 5' flanking region and includes all the 5' regulatory
 CC elements. This region, consisting of the first 3892 of AAQ79353, was
 CC not found in the 3.6 kb EPO genomic clone from fetal liver reported
 CC by others. The flanking region comprises 3892 bp and contains
 CC CAT and TATA boxes and at least 321 potential transcriptional
 CC regulatory elements. AAQ79356-Q79362 show several of these elements
 CC and their positions. The nucleotide position of these elements is
 CC measured from the BamHI site at the 5' end of AAQ79353.

XX Sequence 10 BP; 0 A; 8 C; 0 G; 2 T; 0 other;

QY Query Match 100.0%; Score 6; DB 15; Length 10;
 Best Local Similarity 100.0%; Pred. No. 3.2e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
 XX | | | | |
 DB 10 GGGAGG 5

RESULT 12
 ID AAQ88493

AC AAQ88493 standard; DNA; 10 BP.

XX AAQ88493;
 XX

DT 20-DEC-1995 (first entry)

DE Human mitochondrial D-loop region DNA probe 4-4.

KW Tiling strategy; immobilised nucleic acid probe array;
 KW mitochondrial DNA; D-loop region; biological chip;
 KW hybridisation fingerprint; interrogation position; ss.

OS Synthetic.

PH Key Location/Qualifiers
 FH modified_base 10
 FT /*tag- a
 FT /note= "3'-end of probe is covalently attached
 FT to chip surface"

PN WO9511995-A1.

PD 04-MAY-1995.

PF 26-OCT-1994; 94WO-US12305.

PR 02-AUG-1994; 94US-0284064.

PR 26-OCT-1993; 93US-0143312.

PA (AFVY-) AFVYMAX TECHNOLOGIES NV.

PI Chee M, Cronin WT, Fodor SPA, Gingeras TR, Huang XC;

PI Hubbard EA, Lipshutz RJ, Lobban PE, Miyada CG, Morris MS;

PI Shah N, Sheldon EL;

DR WPI; 1995-178887/23.

PT New arrays of oligo:nucleotide probes - used for comparing known
 PT sequences with variants for detection of mutation(s) and sequencing.

PS Disclosure; Page 107; 223pp; English.

CC A DNA chip was prepared for analysing sequences contained in a
 CC 1.3kb fragment of human mitochondrial DNA from the D-loop region,
 CC the most polymorphic region of human mitochondrial DNA. The chip
 CC comprised a set of 268 overlapping oligonucleotide probes (see
 CC AAQ88421-Q88684) of varying length (9-14 nucleotides) with varying
 CC overlaps arranged in a 1cm x 1cm array. Each position in the
 CC sequence was represented by at least one probe (usually 2 or more).
 CC DNA was amplified from six human donors and then transcribed to
 CC give the 1.3kb RNA transcripts which were fragmented and hybridised
 CC to the chip. For each individual, a unique hybridisation fingerprint
 CC was produced on the chip; all differences could be correlated with
 CC differences in the cloned genomic DNA sequence.

XX Sequence 10 BP; 1 A; 1 C; 8 G; 0 U; 0 other;

QY Query Match 100.0%; Score 6; DB 16; Length 10;
 Best Local Similarity 100.0%; Pred. No. 3.2e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
 XX | | | | |
 DB 5 GGGAGG 10

RESULT 13
 ID AAT98848

AC AAT98848 standard; DNA; 10 BP.

XX AAT98848;

DT 20-MAR-1998 (first entry)

DE Binding site BSN identified using the method of the invention.

KW Protein-binding site isolation; transcription factor modification;

KM DNA-binding protein; inhibitor identification; ss.
 XX Synthetic.
 XX W09727330-A1.
 PN 31-JUL-1997.
 PD 24-JAN-1997; 97WO-US01230.
 PF 24-JAN-1996; 96US-0590571.
 PR (UYA) UNIV YALE.
 PA Kulkarni P, Nallur GN, Weissman SM;
 PI WPI; 1997-393714/36.
 DR
 XX Identifying protein-binding sites for DNA-binding proteins - using
 PT duplexes having 5' and 3' sequences for annealing to amplification
 PT primers with an internal potential protein-binding site sequence
 PS Example 3; Page 19; 52pp; English.
 PS
 XX This sequence represents a binding site identified using the method of
 CC the invention. This sequence was identified using the 32P-labelled
 CC oligonucleotide duplex shown in AAT76581 and the primers shown in
 CC AAT76582-176583 in the method of the invention. The method is for
 CC simultaneously isolating protein-binding sites for DNA-binding proteins.
 CC The method comprises: (a) mixing a set of oligonucleotide (ON) duplexes
 CC having 5' and 3' sequences capable of annealing to primers for
 CC amplification and an internal sequence having a potential
 CC protein-binding site; a non-specific inhibitor and a sample containing
 CC DNA-binding proteins; (b) separating unbound ON duplexes from ON duplexes
 CC complexed with the DNA-binding proteins; (c) amplifying complexed
 CC duplexes to form amplified duplexes; thereby isolating protein-binding
 CC sites for the DNA-binding proteins. The methods can be used to identify
 CC protein-binding sites which can be used to identify corresponding
 CC DNA-binding proteins in an expression library. They can also be used to
 CC develop products to inhibit the function of a given DNA-binding protein
 CC or for the modification of transcription factors.
 XX
 SQ Sequence 10 BP; 1 A; 0 C; 7 G; 2 T; 0 other;
 Query Match 100.0%; Score 6; DB 18; Length 10;
 Best Local Similarity 100.0%; Pred. No. 3.2e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGGAGG 6
 Db 3 GGGAGG 8
 RESULT 14
 AAV35963/C
 ID AAV35963 standard; DNA; 10 BP.
 XX AAV35963;
 AC AAV35963;
 XX 26-AUG-1998 (first entry)
 DT
 XX
 DE Primer used in RAPD assay of the invention.
 XX
 KW Rapid amplification of polymorphic DNA: RAPD; allele; breeding programme;
 KW muscle fibre composition; Duroc pig; meat quality; PCR primer; ss.
 XX Synthetic.
 OS Sus sp.
 XX W09815837-A1.
 PN 16-APR-1998.
 PD
 XX

PF 07-OCT-1997; 97WO-GB02741.
 XX
 PR 09-SEP-1997; 97GB-0019002.
 PR 07-OCT-1996; 96GB-0020904.
 PR 18-FEB-1997; 97GB-0003350.
 PR 20-MAR-1997; 97GB-0005796.
 XX
 PA (MEAT-) MEAT & LIVESTOCK COMMISSION.
 PI Maitin CA, Steven J, Warkup CC;
 PI WPI; 1998-240968/21.
 DR
 XX Assay for alleles or muscle fibre composition characteristic of
 PT Duroc type pigs - comprises determination of genotype or muscle
 PT fibre properties, used to identify animals for breeding programs and
 PT to assess meat quality
 XX
 PS Example 3; Page 33; 56pp; English.
 PS
 XX PCR primers AAV35877-996 were used in a rapid amplification of
 CC polymorphic DNA (RAPD) reaction in the assay of the invention. This assay
 CC is used to determine if an animal has an allele for, or muscle fibre
 CC composition (MFC) characteristic of, the Duroc pig. Duroc pigs produce
 CC meat of superior quality (particularly tenderness) but are normally less
 CC efficient feed converters and fatter than other types. The assay
 CC comprises analysing a tissue sample to determine if the genotype
 CC comprises the allele, and genetic features typical of animals with
 CC Duroc-type MFC are present. The method is used to select animals that
 CC have Duroc characteristics for use in breeding programmes (to develop
 CC the animals with Duroc pig characteristics), and to assess meat quality.
 XX
 SQ Sequence 10 BP; 1 A; 7 C; 1 G; 1 T; 0 other;
 Query Match 100.0%; Score 6; DB 19; Length 10;
 Best Local Similarity 100.0%; Pred. No. 3.2e+05;
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 Db 10 GGGAGG 5
 RESULT 15
 AAC68262
 ID AAC68262 standard; DNA; 10 BP.
 XX AAC68262;
 AC AAC68262;
 XX 20-FEB-2001 (first entry)
 DT
 XX
 DE Lama2/APPA transgene adaptor sequence #1.
 XX
 XX Transgenic animal; salivary protein; phytase; phosphorus; animal growth;
 KW environmental pollution; pig; ds.
 XX Synthetic.
 OS
 XX W0200064247-A1.
 PN 02-NOV-2000.
 PD
 XX 20-APR-2000; 2000WO-CA00430.
 PF 23-APR-1999; 99US-0130508.
 PR (UYGU-) UNIV GUELPH.
 PA Forsberg CW, Golovan S, Phillips JP;
 PI WPI; 2000-687245/67.
 DR Transgenic non-human animal for gastrointestinal tract specific
 XX

PT expression of a protein, preferably phytase, comprises a nucleic acid
PT sequence including a heterologous transgene construct encoding the
PT protein -

XX
PS Disclosure; Page 19; 152pp; English.

XX The present invention provides transgenic animals which produce desired
CC proteins, in this case pigs which expresses phytase in the salivary
CC gland. Low phytase production levels result in phytate in the diet being
CC excreted and causing phosphorus contamination in water, as well as
CC reducing the growth of animals. The invention provides a number of
CC transgenes containing the E. coli APPA phytase coding sequence.

XX
SQ Sequence 10 BP; 1 A; 1 C; 6 G; 2 T; 0 other;

Query Match 100.0%; Score 6; DB 21; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.2e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAGG 6
|||
Db 2 GGGAGG 7

Search completed: October 29, 2002, 09:11:33
Job time : 68.6316 secs